



Ellen Yi-Luen Do

College of Architecture & College of Computing
School of Industrial Design & School of Interactive Computing

Health Systems Institute, 828 W. Peachtree Street, NW
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EDUCATION

- 1992 -- 1998 Ph.D. Georgia Institute of Technology, USA
Major: Design Computing & Design Methods, Minor: Cognitive Science & Computer Science
- Dissertation: The Right Tool at the Right Time –
Investigation of Freehand Drawing as an Interface to Knowledge Based Design Tools
- Dissertation Committee: Craig M Zimring, Mark D Gross, Jean D Wineman
Reading Committee: Janet L Kolodner, Francis D.K. Ching
- 1990 -- 1991 Master of Design Studies, Harvard University, Graduate School of Design, USA
Design and Computing
Advisor: William J Mitchell
- 1983 -- 1988 Bachelor of Architecture (Honors), National Cheng Kung University, Taiwan, ROC
Minor in Urban Planning
- Design Thesis: A Spatial Constitution of Contemporary Settlers Community –
The Case of Aboriginal Ami Tribe Dwelling in Pachiemen District, Keelung City (Thesis Award)
Thesis Advisor: Ming-Hung Wang

PROFESSIONAL EXPERIENCE

- 2013 – present **National University of Singapore, Singapore**
- Co-Director, Keio-NUS CUTE Center [<http://cutecenter.nus.edu.sg/>]
- Interactive and Digital Media Institute (since April 2013), and Visiting Research Professor (since Jan 2013), with joint appointments at School of Computing (SoC) and Division of Industrial Design (DiD) at the School of Design and Environments (SDE)
- Directing a multi-million-dollar joint International Research Center (named CUTE – Connective Ubiquitous Technology for Embodiments) between NUS and Keio University in Japan to develop technologies for experience media research, source: Media Development Authority (MDA), Singapore.
- Approved fund: S\$ 10 million, duration 2009-2016, supported by the Singapore National Research Foundation

under its International Research Center Keio-NUS CUTE Center @ Singapore Funding Initiative and administered by the IDM Program Office, Singapore

Visiting Research Professor

New course development, Design Platform, Digital Wellness (Fall 2013), Digital Wellness for Children (Spring 2014), and Digital Wellness for Seniors (Fall 2014)

GS6883A, Interface Sciences and Engineering, for NUS Graduate School for Integrative Sciences and Engineering - NGS PhD Program (Fall 2014, Spring 2015)

Principal Investigator

VR MedSIM, Virtual Reality Medical Simulation, including Virtual Interactive Human Anatomy – VIHA and Virtual Interactive Simulation Environment – VISE, with Centre for Healthcare Simulation, Yong Loo Lin School of Medicine, National University of Singapore, \$ 3.04 M SGD (Sep 2014 – Aug 2017)

Silver Sense, a Smartphone Application for Elderly Wellness Monitoring, Active Ageing Council, People's Association, \$20k SGD (July 2014 – March 2015)

3D Display Application Development for Augmented Learning, with Tohoku University, Research Institute of Electrical Communication (RIEC), \$18.37 M JPY = \$ 200k SGD

2006 - present **Georgia Institute of Technology, Atlanta**

Professor (promoted March 2012), Associate Professor (with tenure since 2006), PhD Program, College of Architecture, and joint appointments at Intelligent and Interactive Computing Division (06-07) and then the School of Interactive Computing (since Feb 2007), Human Centered Computing Program, College of Computing & GVU Center, School of Architecture (since Jan 2010), School of Industrial Design (since Jan 2012), affiliate faculty at Health Systems Institute (since 2007), and Center for Music Technology (since 2009)

Program and curriculum developments in Design Computing and Design Cognition for PhD program Courses cross-listed in Architecture, Computer Science and Health Systems.

Graduate Program Coordinator, School of Industrial Design (Fall 2011 – Fall 2012)

New course development: Creativity and Design Cognition, Visual and Spatial Reasoning, Design Computing and Everywhere, Ambient Intelligence for Home Energy, Wellness, Emotion, Sex and Technology, Patient Room of the Future, Pediatric Center of the Future, Emergency Room of the Future, Onsite Health Center of the Future, Design Games, Happy Healthy Home – Ambient Intelligence and Innovation

Supervise research in creative design computing, human centered computing, human robot interactions, energy puppet, and Evidence-Based Design best practices, technology interventions for healthcare environment.

Director, Health Space Futures [<http://www.hsi.gatech.edu/healthcaredesign/>]

A Laboratory, a series of interdisciplinary courses that focus on research and design for quality care and experience for patients, families and caregivers. The lab explores the possibilities of creating a safe, soothing and healing environment that increases patient, family and caregiver satisfaction while facilitating flexible use of space and integration of technologies toward a smart healing environment.

Director, ACME Lab – ACME Creativity Machine Environment [<http://acmelab.gatech.edu>]

Intelligent Systems and Objects, Design Computing and Cognition, Physical and Ubiquitous Computing, Intuitive Design Interfaces, Sketch Understanding, Diagram Indexing and Retrieval, Computationally Enhanced Construction Kits and Toys, Architectural Robotics, Ambient Intelligence and Smart Living Technologies.

Principal Investigator, NSF SHB 1117665 <http://nsf.gov/awardsearch/showAward.do?AwardNumber=1117665>

InteCog System: ClockReader+ and CogStim Game for Screening and Preventing Cognitive Impairment (\$102,000, Sep 2011 – August 2012)

Principal Investigator, NSF HCC 1137527 <http://nsf.gov/awardsearch/showAward.do?AwardNumber=1137527>

Workshop: Graduate Student Symposium at ACM Creativity & Cognition (C&C 2011) Conference (\$22,020, May 2011 – April 2012)

2004 - 2005

Carnegie Mellon University, Pittsburgh

Associate Professor, School of Architecture (Sep 2004 – Dec 2005)
Computational Design Research Lab [<http://code.arc.cmu.edu>]

Program & curriculum developments in the Graduate Program of Computational Design: Master of Science and Ph.D. Program. Supervise research in design critiquing, architectural robotics, computationally enhanced construction toys, and avatar based, augmented annotation with freeform authoring interface.

New course development: Studio X, Inventing Futures, Home 2020, Design Computing Theory and Method, Computational Design Colloquium. Co-teach (with Susan Finger, Civil Engineering) Rapid Design through Physical and Virtual Prototyping, Collaborative Learning in Design

1999 - 2004

University of Washington, Seattle

Assistant Professor and then Associate Professor (with tenure, from September 2003),
Department of Architecture, College of Architecture & Urban Planning

New course development: Digital Design Studio, Computer Graphics Programming in Lisp, Computers in Architecture, Digital Design Media, Design Computing Seminar and Developing Design with Computers (Digital Design Dreams).

Program development: Architecture Hall Infrastructure upgrade and Plug-n-Play scheme. Tools for Transformation Grant, Curricular development and planning for Master of Science in Design Computing Program, Certificate of Design Computing, Computational Design Research focus track in College Ph.D. in Built Environment.

Principal Investigator, NSF DUE-0127579 <http://nsf.gov/awardsearch/showAward.do?AwardNumber=0127579>
Project title: Enhancing Spatial Reasoning and Visual Cognition for Early Science and Engineering Students with 'Hands-on' Interactive Tools and Exercises (March 2002 - August 2004)

Co-Director, Design Machine Group

Conduct research on design, computing and built environment, organize Design Computing Research Colloquium (Lab Lunch Seminar). Supervise student researchers.

Program Director, Master of Science in Design Computing Program (from March 2002)

Oversee program operation, curricular development and planning, admission, and program budget administration. Supervise program administrative staff.

Program Faculty, Executive Planning Committee, Interdisciplinary College Ph.D. in Built Environment Program
Program proposal, planning and curricular planning

Honors Council, and Program Faculty, University of Washington, Honors Program (from Summer 2002)

Course: Visual Thinking and Spatial Reasoning, Early Fall Start, and Freshman Seminar

Program Faculty, Interdisciplinary Ph.D. Program in Urban Design and Planning (from Spring 2002)

Supervision of Ph.D. students and curriculum planning

Adjunct Assistant Professor, Department of Landscape Architecture (from Fall 2001)

Urban Design Studio (Northgate, Thornton Creek, Community Center, Northgate Public Library and Open Space) engaged in citizen participation community workshops sponsored by the City of Seattle. Chairing student theses.

1998 - 1999

University of Colorado, Boulder

Post-Doctoral Fellow, NSF grant 96-19856, Sundance Lab for Design Computing

Computer support for design, including diagrams, drawing and constraint based architectural design methods
supervise Lab research projects.

1994 - 1998 **University of Colorado, Boulder**

Professional Research Associate, Sundance Lab for Design Computing

Computer support for design, including diagrams, drawing and constraint based architectural design methods
supervise Lab research projects.

Instructor, Environmental Design Program, College of Architecture & Planning

Teaching Computer Graphics Programming, Managing Architecture & Planning Computer Facilities (Lab
Advisors)

1992 - 1994 **Georgia Institute of Technology, Atlanta**

Research Assistant, Ph.D. Program, College of Architecture

Integrating computing and design analysis: Isovist & space syntax

Research Assistant for Architecture & Artificial Intelligence joint project ARCHIE

Case-Based Reasoning for conceptual design using Post Occupancy Evaluation data, data collection, user
studies, and implementation of a diagram interface

Instructor, and Teaching Assistant, Industrial Design Program, College of Architecture

Teaching Alias visualization, multi-media applications for industrial design graduate students
Industrial design graduate design studio

1990 – 1992 **Harvard University, Graduate School of Design**

Technical and Applications Assistant, Computer Aided Design Resources Department

Technical support for computer applications, academic consulting on computer-aided design for students and
faculty, General project administrator

System management encompassing Macintosh and IBM micro-computers, UNIX-based Sun Sparc, Silicon
Graphics Iris, and IBM RT workstations.

Electronic Virtual Design Studio, railroad train station design

Designer & Modeler

Project Boston 2000 (for Congress of Architecture, Engineering and Construction)

1989 – 1990 **Tourism Bureau, Ministry of Communications, Taiwan, ROC**

Designer, Project Manager, Research Assistant

Kingmen Area Landscape Controlling Codes and Urban Planning Suggestions

Tourism Resources Survey and Integrated Development of Kingmen

Kingmen island tourist resort design, scenic spots planning, project management and publications

1989 - 1990 **Freelance Designer, Taipei**

Designer & Researcher

Urban Design and Planning Proposal for the Yi-Lan County, Taiwan

Designer

Orange Country Preserved Fruits Display Center, Yi-Lan, Taiwan.

1988 – 1989 **National Taiwan University Graduate Institute of Building and Planning**

Teaching Assistant, Research Assistant, and Project Manager

Research and material preparation for class on public open space & urban seismic disaster design

Relationship between Population Characteristics & Land Use in Densely Populated Areas

The Evaluation of Urban Seismic Disaster Factors

- 1988 – 1989 **C. H. Ho International, Architects & Planners, Taipei**
 Designer
 First Prize, design competition entry, Hsi-Chi Commercial Building
 Houlong Institute of Technology campus planning and design
 Taipei Public Housing Project spatial layout design
- 1987 **National Taiwan University, Institute of Architecture and Urban Studies**
 Researcher,
 Construction Techniques of Confucius Temple in Tainan City
- 1987 **C. Y. Lee & Partners, Architects, Planners, Taipei**
 Intern architect, spatial layout organizer, schematic designing and construction drafting
 Taipei Regent Hotel
- 1984 - 1986 **Studio of Chinese/Contemporary Architecture, Landscape, & Environment (SCALE)**
 Researcher
 Architecture in Anping (project and book publication)
- 1985 **Tainan Cultural Center**
 Instructor
 Introduction to Chinese Architecture

EDITED VOLUME AND REFEREED BOOK CHAPTER

- 2014 “Proceedings of the Second International Symposium of Chinese CHI,” April 26-27, 2014, Toronto, conference chairs Ellen Yi-Luen Do, Wei Li, <http://dl.acm.org/citation.cfm?id=2592235> ICACHI International Chinese Association of Computer Human Interaction (120 pages) ACM Press 978-1-4503-2876-0
- 2013 “Intelligent Interactive Technologies and Multimedia: Second International Conference, IITM 2013, Allahabad, India, March 9-11, 2013. Proceedings, edited volume by Anupam Agrawal, RC Tripathi, Ellen Yi-Luen Do, MD Tiwari, 2013, Springer Publisher, <http://library.wur.nl/WebQuery/clc/2026691>
 “Designing Interactive Computing for Happy Healthy Life” Ellen Yi-Luen Do, 2013/1/1, chapter for the book, Intelligent Interactive Technologies and Multimedia, P. 1-13, Publisher, Springer Berlin Heidelberg.
 http://link.springer.com/chapter/10.1007/978-3-642-37463-0_1
- 2012 “Happy Healthy Home,” Ellen Yi-Luen Do and Brian D Jones, chapter for The Handbook of Ambient Assistive Technologies for Healthcare, Rehabilitation and Well-being, J. Maitland (ed) IOS Press, Amsterdam, The Netherlands, Volume 11, 2012, pp. 195-210, DOI: 10.3233/978-1-60750-837-3-195 IOS Press
- 2011 SBIM 2011 – Proceedings of the Eighth Eurographics Symposium on Sketch-Based Interfaces and Modeling, Conference Chairs: Ellen Do, Jean-Claude Leon, Program Chairs: Tracy Hammond, Andy Nealen, SBIM/NPAR/CAe 2011 Joint Symposia on Sketch-Based Interfaces and Modeling, Non-Photorealistic Animation and Computational Aesthetics, Vancouver, BC, Canada – August 05 - 07, 2011 ACM New York, NY, USA ©2011 <http://dl.acm.org/citation.cfm?id=2021164>
 TEI'11, Proceedings of the fifth international conference on Tangible, embedded, and embodied interaction, (eds) Ellen Yi-Luen Do, Stephen Brewster, Ian Oakley, Funchal, Portugal – January 22 - 26, 2011, ACM, New York, (453 pages) <http://dl.acm.org/citation.cfm?id=1935701>
 TEI 2011 Work-in-Progress, Proceedings of the work-in-progress workshop at the 2011 Tangible, Embedded and Embodied Interaction in Madeira, Portugal (eds) Ellen Yi-Luen Do, Mark D Gross, Ian Oakley (204 pages) <http://www.lulu.com/product/paperback/tei-2011-work-in-progress/14640275>

- “Sketch that Scene for Me and Meet Me in Cyberspace,” Ellen Yi-Luen Do, in Collaborative Design in Virtual Environments (Chapter 11) pp. 121-130, edited by Xiangyu Wang and Jerry Jen-Huang Tsai, Springer ISBN: 978-94-007-0604-0, Springer Online [Springer Link](http://www.springerlink.com/content/978-94-007-0604-0#section=862591&page=1&locus=0)
<http://www.springerlink.com/content/978-94-007-0604-0#section=862591&page=1&locus=0>
- 2010 SBIM 10 – Proceedings for the Seventh Sketch-Based Interfaces and Modeling Symposium jointly with Eighth Symposium on Non-Photorealistic Animation and Rendering Annecy, France — June 07 - 10, 2010, (eds) Marc Alexa, Ellen Yi-Luen Do, Eurographics Association Aire-la-Ville, Switzerland, Switzerland (158 pages)
<http://dl.acm.org/citation.cfm?id=1923363&CFID=9151343&CFTOKEN=24384934>
- “Design Computing and Cognition” – Special Issue for AI EDAM Artificial Intelligence for Engineering Design, Analysis and Manufacturing, Volume 24 - Special Issue 01, Published online: 29 January 2010
<http://journals.cambridge.org/action/displayIssue?jid=AIE&volumeld=24&seriesId=0&issueld=01>
- Editorial – Design Computing and Cognition, An Introduction, DOI>[10.1017/S0890060409990205](https://doi.org/10.1017/S0890060409990205), (eds) Ashok Goel and Ellen Yi-Luen Do, AI EDAM Vol 24 (1): 1-2, Cambridge University Press,
<http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=7128756>
- 2009 “The mechanisms of value transfer in design meetings,” Christopher A. Le Dantec and Ellen Yi-Luen Do, Values” in About Designing: Analysing Design Meetings, Edited by Janet McDonnell and Peter Lloyd, Taylor & Francis <http://www.routledgeart.com/books/About-Designing-isbn9780415440585>
http://design.open.ac.uk/dtrs7/downloads/About_Designing.pdf
- “Tangible Interaction for Design” – Special Issue for AI EDAM Artificial Intelligence for Engineering Design, Analysis and Manufacturing, Volume 23 - Special Issue 03, Published online: 17, June 2009, DOI>[10.1017/S0890060409000195](https://doi.org/10.1017/S0890060409000195), <http://journals.cambridge.org/action/displayIssue?iid=5855024>
- Editorial - Back to the real world: Tangible interaction for design, Ellen Yi-Luen Do and Mark D. Gross Artificial Intelligence for Engineering Design, Analysis and Manufacturing / Volume 23 / Special Issue 03, pp 221 -223, Published online: 17 June 2009, DOI>[10.1017/S0890060409000195](https://doi.org/10.1017/S0890060409000195)
<http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=5855028>
- 2008 "TeleTables and Window Seat: Bilocative Furniture Interfaces," Yeonjoo Oh, Ken Camarata, Mike Philetus Weller, Mark D Gross, and Ellen Yi-Luen Do, in Ubiquitous Computing: Design, Implementation, and Usability, Yin-Leng Theng and Henry B. L. Duh, Eds. Hershey: Information Science Reference, 2008, (Chapter 11) pp. 160 - 171. ISBN-13: 978-1-59904-693-8 (hardcover) ISBN-13: 978-1-59904-695-2 (e-book) <http://www.igi-global.com/reference/details.asp?ID=7532>, <http://www.igi-global.com/bookstore/chapter.aspx?TitleId=30525>
- 2006 “Understanding, Representing and Reasoning about Design” – Special Issue for AI EDAM Artificial Intelligence for Engineering Design, Analysis and Manufacturing, Volume 20 - Issue 03, Published online: 27, June 2006
<http://journals.cambridge.org/action/displayIssue?jid=AIE&volumeld=20&seriesId=0&issueld=03>
- Editorial, Understanding, Representing and Reasoning about Design, Claudia M. Eckert and Ellen Yi-Luen Do, Artificial Intelligence for Engineering Design, Analysis and Manufacturing / Volume 20/ Issue 03, pp 163 -165, online: 27 June 2006, DOI: [10.1017/S089006040606014](https://doi.org/10.1017/S089006040606014),
<http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=449339>
- 2003 “Integrating the Digital and the Physical...” (eds) Nancy Yen-Wen Cheng and Ellen Yi-Luen Do, for International Journal of Architectural Computing, Volume 1, Number 2 / June 2003, Multi Science Publishing ISSN1478-0771, Online Wednesday, July 29, 2009
<http://multi-science.metapress.com/content/r17028467n13/?p=b88e1acba06b4bb58824dbc9fc53fe64&pi=0>
- Editorial Pages - “Integrating the Digital and the Physical...” (eds) Nancy Yen-Wen Cheng and Ellen Yi-Luen Do, International Journal of Architectural Computing, Volume 1, Number 2 / June 2003, Multi Science Publishing ISSN1478-0771, Online Wednesday, July 29, 2009, pp 131-132,
DOI> [10.1260/147807703771799139](https://doi.org/10.1260/147807703771799139) Online Wednesday, July 29, 2009
<http://multi-science.metapress.com/content/r17028467n13/?p=db97cc10a95f46cda3a5734bd5f6d0f2&pi=28>
- “Why Peer Review Journals?” Ellen Yi-Luen Do, International Journal of Architectural Computing, Volume 1, Number 2 / June 2003, Multi Science Publishing ISSN1478-0771, Online Wednesday, July 29, 2009, pp 263-265, DOI> [10.1260/147807703771799229](https://doi.org/10.1260/147807703771799229) Online Wednesday, July 29, 2009 <http://multi-science.metapress.com/content/b72g72q075216861/?p=f2037ba72ddb49268f44ddb89176162b&pi=9>

- 2001 "Thinking with Diagrams in Architectural Design", Ellen Yi-Luen Do and Mark D. Gross, In Thinking with Diagrams, Alan F. Blackwell (ed), (Chapter 8 in single volume book, reprinted from AI Review) pp. 135-149, Kluwer Academic Publishers, Dordrecht, The Netherlands.
<http://books.google.com/books?id=IRcKTUOGKUIC&pg=PP1&dq=Thinking+with+Diagrams>

ARTICLE IN PROFESSIONAL MAGAZINE

- 2009 "Thinking with Diagrams in Architectural Design", Ellen Yi-Luen Do and Mark D Gross, for Architectural Review special issue, The Diagram, p 50-54, printed by the Concrete Centre
<http://portal.acm.org/citation.cfm?id=378094> also http://en.wikipedia.org/wiki/Architectural_drawing

REFEREED JOURNAL ARTICLES

- 2014 "La forma de las actividades humanas en el espacio: hacia un análisis espacio-temporal en la arquitectura," Paula Gómez, Ellen Yi-Luen Do, Mario Romero, De Arquitectura Vol 26:11-19, Aug 13, 2014,
<http://www.revistas.uchile.cl/index.php/RA/article/viewArticle/32550> or doi>10.5354/0719-5427.2012.32550
- 2013 "Evidence-based design of healthcare facilities: opportunities for research and practice in infection prevention" Craig Zimring, Megan E Denham, Jesse T Jacob, David Z Cowan, Ellen Do, Kendall Hall, Douglas Kamerow, Altug Kasali, James P Steinberg, 2013/5, in Journal of Infection Control and Hospital Epidemiology, Volume 34 Issue 5 Pages 514-516,
<http://www.jstor.org/discover/10.1086/670220?uid=3738992&uid=2&uid=4&sid=21103394193903>
- A Theoretical Framework of Design Critiquing in Architecture Studios, Yeonjoo Oh, Suguru Ishizaki, Mark D. Gross, Ellen Yi-Luen Do, in Design Studies, Available online 25 September 2012, Vol 34 (3): 302-325, May 31, 2013, <http://dx.doi.org/10.1016/j.destud.2012.08.004>
- 2012 "Quantifying the Artistic Experience with Perceptive Sketching Tools: Cognitive Technologies to Support Creative Researchers," Nicholas Davis and Ellen Yi-Luen Do, Comunicação e Sociedade 22, 76-95
<http://www.lasics.uminho.pt/ojs/index.php/comsoc/article/download/1275/1217>
- "Home-based Computerized Cognitive Assessment Tool for Dementia Screening", Hyungsin Kim, Chih-Pin Hsiao, Ellen Yi-Luen Do, Journal of Ambient Intelligence and Smart Environments, JAISE IOS Press, pp. 429 - 442, DOI 10.3233/AIS-2012-0165 <http://iospress.metapress.com/content/t62j422j6804/>
- 2011 "The Role of Information and Computer Technology for Children with Autism Spectrum Disorder and the Facial Expression Wonderland (FEW)", Rung-Yu Tseng and Ellen Yi-Luen Do, International Journal of Computational Models and Algorithms in Medicine (IJCMAM) 2(2), 23-41, April-June 2011, (ed) Aryya Gangopadhyay, IGI Global, Hershey, PA, USA, DOI: 10.4018/jcmam.2011040102
<http://www.igi-global.com/bookstore/titledetails.aspx?TitleId=1166>
- 2010 "Move, Beam, and Check! Imagineering Tangible Optical Chess on An Interactive Tabletop Display," Andy Wu, David Joyner & Ellen Yi-Luen Do, in ACM Computers in Entertainment (CIE) Vol 8 (3) Article 20 (15 pages, Wu and Joyner, PhD students), <http://dx.doi.org/10.1145/1902593.1902599> or
<http://portal.acm.org/citation.cfm?id=1902593.1902599>
- "Extended Linkography And Distance Graph In Design Evaluation: An Empirical Study Of The Dual Effects Of Inspiration Sources In Creative Design," Hui Cai, Ellen Yi-Luen Do, Craig M. Zimring, in journal of Design Studies. Vol. 31 (2) March 2010, pp 146-168, doi:10.1016/j.destud.2009.12.003 (Available online 22 January 2010, Cai: PhD student, Zimring: faculty colleague)
<http://linkinghub.elsevier.com/retrieve/pii/S0142694X09000970>
- "A Constraint-Based Furniture Design Critic" Yeonjoo Oh, Mark D Gross, Suguru Ishizaki, Ellen Yi-Luen Do, in Research and Practice in Technology Enhanced Learning (RPTEL) Vol 5: 2 (2010) 97-122 DOI: 10.1142/S1793206810000864 & <http://dx.doi.org/10.1142/S1793206810000864>
- 2009 "Computational Support for Sketching in Design: A Review", Gabe Johnson and Mark D. Gross and Jason Hong and Ellen Yi-Luen Do, in *Foundations and Trends® in Human-Computer Interaction*: Vol. 2: No 1, pp 1-93. DOI: 10.1561/1100000013 (<http://dx.doi.org/10.1561/1100000013>) (Johnson: former student. Gross and

Hong: faculty colleagues) Now Publishers, Boston, Delft.
<http://www.nowpublishers.com/product.aspx?product=HCI&doi=1100000013>

"The mechanisms of value transfer in design meetings," Christopher A. Le Dantec and Ellen Yi-Luen Do, Values in the Design Process, Edited by Peter Lloyd and Janet McDonnell, in Design Studies, Volume 30, Issue 2, March 2009, Pages 119-137, doi:10.1016/j.destud.2008.12.002 (Available online 29 January 2009, Le Dantec: PhD student) <http://dx.doi.org/10.1016/j.destud.2008.12.002>

"Educating the New Makers: Cross-Disciplinary Creativity," Mark D Gross and Ellen Yi-Luen Do, in Leonardo, Vol. 42: 3. Pp 210-215. E-ISSN: 1530-9282 Print ISSN: 0024-094X, Edited by Leonardo/the International Society for the Arts, Sciences and Technology, and published by the MIT Press, Posted Online April 30, 2009. doi:10.1162/leon.2009.42.3.210 (Gross: faculty colleague)
<http://www.mitpressjournals.org/doi/abs/10.1162/leon.2009.42.3.210>

- 2008 "ArchiDNA: An Interactive System for Creating 2D and 3D Conceptual Drawings in Architectural Design," Doo Young Kwon, Mark D Gross and Ellen Yi-Luen Do, for Journal of Computer Aided Design, Vol. 41: 159-172 (available online since 8/08 - <http://dx.doi.org/10.1016/j.cad.2008.07.007>, Science Direct) Elsevier Publisher. (Kwon: former MS student. Gross: faculty colleague)
- 2006 "FlexM: Designing a Physical Construction Kit for 3D Modeling", Markus Eng, Ken Camarata, Ellen Yi-Luen Do, Mark D Gross, in IJAC – International Journal of Architectural Computing, Nancy Cheng and Celine Pinet (eds), 1 June 2006, vol. 4, issue. 2, pp: 27-47, Multi-Science Publishing Co Ltd (Eng: M Arch student, Camarata: former MS student, Gross: faculty colleague), DOI> 10.1260/1478-0771.4.2.27, <http://multi-science.metapress.com/content/x3648288433k55j2/>
- "Energy Cube and Energy Magnets", Ken Camarata, Ellen Yi-Luen Do, Mark D Gross, in IJAC - International Journal of Architectural Computing, Nancy Cheng and Celine Pinet (eds), 1 June 2006, vol. 4, issue. 2, pp: 49-66, (Camarata: former student, Gross: faculty colleague) DOI > 10.1260/1478-0771.4.2.49
<http://multi-science.metapress.com/content/e680h04n364106k2/>
- 2005 "Design Sketches and Sketch Design Tools," Ellen Yi-Luen Do, in KBS - Knowledge Based Systems (18) 383-405, Kumiyo Nakakoji, Mark D Gross, Linda Candy, Ernest Edmonds (eds), Elsevier Publisher. Available online 11 August 2005, doi>10.1016/j.knosys.2005.07.001, <http://dx.doi.org/10.1016/j.knosys.2005.07.001>
- "SPOT! Fetch Light: Interactive navigable 3D visualization of direct sunlight," Sébastien Bund and Ellen Yi-Luen Do, in Automation in Construction, Volume 14, Issue 2, March 2005, Pages 181-188, Elsevier, B.V. doi:10.1016/j.autcon.2004.07.007 Available online 8 January 2005 (Bund: former student) <http://dx.doi.org/10.1016/j.autcon.2004.07.007>
- 2004 "Let There Be Light! Knowledge-Based 3-D Sketching Design Tools," Ellen Yi-Luen Do and Mark D. Gross IJAC - International Journal of Architectural Computing, Wassim Jabi and Celine Pinet (eds), 1 June 2004, vol. 2, issue. 2, pp. 211-227(17) Multi-Science Publishing Co Ltd (Gross: faculty colleague) DOI: 10.1260/1478077041518647 <http://multi-science.metapress.com/content/u772723uxw441874/>
- 2003 "A Physical Computing Studio: Exploring Computational Artifacts and Environments," Ken Camarata, Mark D Gross, and Ellen Yi-Luen Do, in International Journal of Architectural Computing, Volume 1, Issue #2. Nancy Yen-wen Cheng and Ellen Yi-Luen Do (eds.) Multi-Science Publisher, UK, Pp 169-190 (Camarata: research associate and former student, Gross: faculty colleague) (Double Blind Review, 7/11, acceptance rate 64%) DOI: 10.1260/147807703771799166 or <http://multi-science.metapress.com/content/883l660315237614/?p=206795a1166741f38c67ee40a2078ea9&pi=3>
- 2002 "Drawing Marks, Acts and Reacts: toward a computational sketching for architectural design", 16 (3), 149-171, Ellen Yi-Luen Do, in special issue of human-computer interaction in engineering contexts, Journal of AIEDAM - Artificial Intelligence in Engineering Design, Analysis and Manufacturing, Cambridge University Press (eds. Ian Parmee and Ian Smith) doi>10.1017/S0890060402163037 or <http://portal.acm.org/citation.cfm?id=965690>
- 2001 "Thinking with Diagrams in Architectural Design", Ellen Yi-Luen Do and Mark D. Gross, In Artificial Intelligence Review, Vol. 15 pp. 135-149, Kluwer Academic Publishers, Dordrecht, The Netherlands
<http://www.ingentaconnect.com/content/klu/aire/2001/00000015/00000001/00211604>
- 2000 "Drawing on the Back of an Envelope", Mark D. Gross and Ellen Yi-Luen Do, in Computers and Graphics, Vol. 24, No. 6, pp. 835-849, Calligraphic Interface, Joaquim A Jorge and Ephraim Glinert (eds) New York,

Pergamon Press. DOI: 10.1016/S0097-8493(00)00087-X or
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Creativity and Cognition, Oct 27-30, Berkeley, pp. 439-440 (acceptance rate 32/137, 23%, Weller:
Computational Design PhD student) <http://www.creativityandcognition09.org/accepteddemos.htm>,
doi>[10.1145/1640233.1640341](https://doi.org/10.1145/1640233.1640341) <http://portal.acm.org/citation.cfm?id=1640233.1640341>

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Learn from Humans Symposium, AAAI Spring Symposium, Technical Report SS-09-01. pp 1–7.
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EUROGRAPHICS Symposium on Sketch-Based Interfaces and Modeling (SBIM 2009), New Orleans, August
1-2, 2009, pp. 117-123 (Johnson, PhD student) doi>[10.1145/1572741.1572762](https://doi.org/10.1145/1572741.1572762),
<http://portal.acm.org/citation.cfm?id=1572762>

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Eisenberg, in Tangible and Embedded Interaction 2009: 107-112 (acceptance rate 30/160, 18.75%, Huang:
former PhD student. Gross & Eisenberg: faculty colleagues). <http://www.tei-conf.org/>
<http://portal.acm.org/citation.cfm?id=1517692>

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Bhat and Ellen Yi-Luen Do, in IDC, International Conference of Interaction Design and Children, June 3-5,
Como Italy, <http://www.idc09.polimi.it/> (acceptance rate 17/53, 32%, HCI & CS MS students: Mansour, Barve,
Bhat), pp. 166-169 <http://portal.acm.org/citation.cfm?id=1551788.1551818>

“Tangible Optical Chess: Laser Strategy Game on an Interactive Tabletop,” David Joyner, Chih-Sung Wu and
Ellen Yi-Luen Do, IDC, International Conference of Interaction Design and Children, June 3-5, Como Italy,
demo, <http://www.idc09.polimi.it/> (acceptance rate 17/53, 32%, MS student: Joyner, PhD student: Wu) pp. 278-
279. <http://portal.acm.org/citation.cfm?id=1551788.1551855>

“State Machines are Child’s Play: Observing children age 9 to 11 playing with Escape Machine,” Michael
Philetus Weller, Mark D Gross and Ellen Yi-Luen Do, IDC, International Conference of Interaction Design and
Children, June 3-5, Como Italy, <http://www.idc09.polimi.it/> (acceptance rate 17/53, 32%, Weller: former PhD
student. Gross: faculty colleague) pp. 170-173, <http://portal.acm.org/citation.cfm?id=1551788.1551819>

“Technological Interventions for Hand Hygiene Adherence - Research and intervention for smart patient room,”
Ellen Yi-Luen Do, in CAAD Futures 2009, June 17-19, Montreal, Canada (two steps review, acceptance rate
31- 48%, 63/130/200) T. Tidalfi and T. Dorta (eds), p. 303-313,
<http://www.arclab.umontreal.ca/CAADFutures09/> http://www.caadfutures.org/proceedings_09.htm , see
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“Assessing the significance of problem solving expertise and computational tool proficiency for design
performance,” Sherif Morad AbdelMohsen and Ellen Yi-Luen Do, in CAAD Futures 2009, June 17-19,
Montreal, Canada (two steps review, 63/130/200, acceptance rate 31-48%, AbdelMohsen: Design Cognition

PhD student), T. Tidalfi and T. Dorta (eds). p. 273-287 <http://www.arclab.umontreal.ca/CAADFutures09/>, see <http://cumincad.scix.net/cgi-bin/works/Search?search=Sherif+Morad+AbdelMohsen> and (CuminCAD login needed) http://cumincad.scix.net/cgi-bin/works/Show?cf2009_273

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“Designing Three Dimensional Image Generator,” Chung-Lun Kuo and Ellen Yi-Luen Do, in CAAD Futures 2009, June 17-19, Montreal, Canada, poster (Kuo: Design Computing PhD student, acceptance rate 18/67, 27%), Poster proceedings, p 17-18 http://cumincad.scix.net/cgi-bin/works/Show?cf2009_poster_17 http://www.arclab.umontreal.ca/CAADFutures09/CAAD_futures_2009_home.php, or <http://cumincad.scix.net/cgi-bin/works/Search?search=Chung-Lun+Kuo> and (member login needed)

“Towards a Smart Living Environment,” Ellen Yi-Luen Do, in CAAD Futures 2009, June 17-19, Montreal, Canada, poster http://www.arclab.umontreal.ca/CAADFutures09/CAAD_futures_2009_home.php, (acceptance rate 18/67, 27%), Poster proceedings, p 27-29

“Tangible Sketching in 3D with Posey,” Michael Philetus Weller, Ellen Yi-Luen Do and Mark D Gross, in Ext Abstracts of 27th international conference on Human Factors in Computing (CHI 2009) session: Interactivity: touch & feel pp. 3193-3198, Boston, MA, USA, April 5-9 (acceptance rate 24.5%) (Weller, Computational Design PhD student) <http://doi.acm.org/10.1145/1520340.1520455>

“An Optocoupled Poseable Ball and Socket Joint for Computationally Enhanced Construction Kits,” Michael Philetus Weller, Ellen Yi-Luen Do and Mark D Gross, in Robocom - Second International Conference on Robot Communication and Coordination, Odense, Denmark, March 31 - April 2 2009, pp. 1-6, ISBN: 978-963-9799-51-6 INSPEC Accession Number: 10661513 <http://www.robocomm.org/techprog.shtml> & http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4957466 (Weller, Computational Design PhD student)

“The ED of the Future: an Interdisciplinary Graduate Course in Healthcare Design,” SAEM 2009 – Society for Academic Emergency Medicine annual meeting, May 14-15, New Orleans, in the category of Innovations in Emergency Medicine Education, (IEME) exhibits, (abstract peer reviewed, acceptance rate, 20/83 submission), <http://www.saem.org/saemdnn/Meetings/2009AnnualMeeting/tabid/1132/Default.aspx>, <http://www.saem.org/saemdnn/Meetings/2009AnnualMeeting/2009MeetingEvents/IEME2009/tabid/1194/Default.aspx>, Jeremy Ackerman (Emory School of Medicine), David Cowan (Health Systems Institute), Ellen Yi-Luen Do, Marilyn Margolis (Emory School of Nursing), Marvina Williams (Perkins + Will Architects), Craig Zimring (faculty colleagues) <http://onlinelibrary.wiley.com/doi/10.1111/j.1553-2712.2009.00392.9.x/abstract>, Academic Emergency Medicine, Special Issue: 2009 SAEM Annual Meeting Abstracts, Volume 16, Issue s1, page S277, April 2009, DOI: [10.1111/j.1553-2712.2009.00392.9.x](http://dx.doi.org/10.1111/j.1553-2712.2009.00392.9.x)

“Interactive Blow Painting,” Yang-Ting Shen and Ellen Yi-Luen Do in 2009 International Symposium on Digital Life Technologies: Human-Centric Smart Living Technology, May 28, 29, pp. 24-30 http://credit.csie.ncku.edu.tw/2009_ch/main.htm in Chinese (Yang-Ting: MS HCI, Digital Media student)

2008

“PianoTouch: A Wearable Haptic Piano Instruction System For Passive Learning of Piano Skills,” Kevin Huang, Ellen Yi-Luen Do, Thad Starner, in ISWC 2008, 12th IEEE International Symposium on Wearable Computers, <http://www.iswc.net/>, pp 41-44, Sep 28 - Oct 1, Pittsburgh, Pennsylvania (Huang: CS MS student, Starner: Interactive Computing faculty) <http://doi.ieeecomputersociety.org/10.1109/ISWC.2008.4911582>

“Energy Puppet: An Ambient Awareness Interface for Home Energy Consumption,” Sherif Morad Abdelmohsen and Ellen Yi-Luen Do, in SID 08, 7th International Workshop on Social Intelligence Design, Designing socially aware interactions, <http://cdr.uprrp.edu/SID2008/default.htm>, Dec 3-5, Universidad de Puerto Rico, San Juan, PR, full 7 page paper included in digital proceedings (Abdelmohsen: Design Computing PhD student)

“Variation from Repetition,” Marcelo Bernal and Ellen Yi-Luen Do, in eCAADe 08, Education and Research in Computer Aided Architectural Design in Europe, architecture ‘in computro’ integrating methods and techniques, <http://www.ecaade08.be/>, pp. 791-798, Sep 17 – 20, University College of Antwerpen, Belgium, (Bernal: Design Computing PhD student). <http://ecaade08.be/Day3>

“Computing Spatial Qualities For Architecture,” Sora Key, Mark D Gross and Ellen Yi-Luen Do, in ACADIA 2008, Silicon + Skin, Computational Methods for Data Integration, pp 472-477, Oct 16-19, University of Minnesota, Minneapolis, http://www.acadia.org/acadia2008/?page_id=140 (Key: Computational Design PhD student, Gross: faculty colleague)
http://www.researchgate.net/publication/30871556_Computing_Spatial_Qualities_For_Architecture

“Posey: Instrumenting a Poseable Hub and Strut Construction Toy,” Michael Philetus Weller, Ellen Yi-Luen Do and Mark D Gross, in Tangible and Embedded Interaction (TEI’08), Feb 18-20, Bonn, Germany, pp 39-46. <http://tei-conf.org/> (Weller: Computational Design PhD student) (full paper review, acceptance rate 31%, 27/85) doi>[10.1145/1347390.1347402](https://doi.org/10.1145/1347390.1347402) or <http://portal.acm.org/citation.cfm?id=1347402>

Escape Machine: teaching computational thinking with a tangible state machine game,” Michael Philetus Weller, Ellen Yi-Luen Do and Mark D Gross, in Interaction Design and Children (IDC ’08), pp. 282-289, Chicago, June 11-13. <http://idc08.northwestern.edu/index.php> (Weller: PhD student) (full paper review) doi>[10.1145/1551788.1551819](https://doi.org/10.1145/1551788.1551819) or <http://portal.acm.org/citation.cfm?id=1551788.1551819>

“SmartHands – a multi-modal haptic piano teaching system,” Kevin Huang and Ellen Yi-Luen Do, in DCC 08 (Design Computing and Cognition), June 22-26, Atlanta, <http://mason.gmu.edu/~jgero/conferences/dcc08/>, Poster Proceedings Vol. II. pp 13-14 (Huang: CS Master student) (extended abstract review, 60% acceptance)

“Computer-Aided Critiquing Systems: Lessons Learned and New Research Directions,” Yeonjoo Oh, Mark D Gross, Ellen Yi-Luen Do, in CAADRIA (Computer Aided Architectural Design Research in Asia) Chiang Mai, Thailand, April 9-12, <http://www.caadria2008.org/>, pp 161-167 (Oh: Computational Design PhD student) (abstract and full paper review, acceptance rate 50%, 85/170)

2007

“The Mechanisms of Value Transfer in Design Meetings,” Christopher A Le Dantec and Ellen Yi-Luen Do, in DTRS 7, Design Meeting Protocols, Design Thinking Research Symposium, Central Saint Martins College of Art and Design, London, UK, (eds) Nigel Cross, Peter Lloyd, Rachael Luck, Janet McDonnell, and Fraser Reid, p 57-68 (Le Dantec: HCC PhD student) <http://design.open.ac.uk/dtrs7/>

“Architectural Robotics: A New Paradigm for the Built Environment,” Michael Philetus Weller and Ellen Yi-Luen Do, for EuroplA.11, 11th International Conference on Design Sciences & Technology, Digital Thinking in Architecture, Civil Engineering, Archaeology, Urban Planning and Design: Finding the Ways, (eds) G De Paoli, K Zreik and R Beheshti, September 19-21, 2007, Montreal, Quebec, Canada, <http://europia11.free.fr/> (Weller is a Computational Design PhD student) pp 353-362. ISBN 978-2-909285-41-3

“The Dual Effects of Inspiration Sources in Design - An Empirical Study of Designer's use of Analogy in Design,” Hui Cai and Ellen Yi-Luen Do, in IASDR, International Association of Societies of Design Research, Emerging Trends in Design Research, November 12-15, Hong Kong Polytechnic University School of Design, <http://www.sd.polyu.edu.hk/iasdr/> (Cai is a CoA PhD student) (abstract and full paper review, acceptance rate 46%, 300/650) [Pdf in proceedings](#) - Nov 14, Session D Creativity, 11:45 am (3) [Wednesday program](#)

“Comparing Notes, a study of perceived concept importance between architectural design students and teachers,” Hugo A Sheward and Ellen Yi-Luen Do, in IASDR, International Association of Societies of Design Research, Emerging Trends in Design Research, November 12-15, Hong Kong Polytechnic University School of Design, <http://www.sd.polyu.edu.hk/iasdr/> (Sheward is a Design Computing PhD student) (abstract and full paper review, acceptance rate 46%, 300/650) [Pdf in Nov 14, Session F Case Study 4:45 pm \(1\) Wednesday program](#)

“Investigating how Physical Environment might help Enhance Children's Creativity,” Atefe Makhmalbaf and Ellen Yi-Luen Do, in IASDR, International Association of Societies of Design Research, Emerging Trends in Design Research, November 12-15, Hong Kong Polytechnic University School of Design, <http://www.sd.polyu.edu.hk/iasdr/> (Makhmalbaf CoA PhD student) (abstract and full paper review, acceptance rate 46%, 300/650) [pdf in proceeding](#) - Nov 14, Session D Creativity 3:15 pm (2) [Wednesday program](#)

“Tracking Concept Development Through Decomposing Sketching Processes,” Sherif Morad Abdelmohsen and Ellen Yi-Luen Do, in IASDR, International Association of Societies of Design Research, Emerging Trends in Design Research, November 12-15, Hong Kong Polytechnic University School of Design, <http://www.sd.polyu.edu.hk/iasdr/> (Abdelmohsen is a CoA Design Computing PhD student) (abstract and full paper review, acceptance rate 46%, 300/650) [pdf in-Nov 14, Session D Creativity 3:15 pm \(2\) Wednesday program](#)

"Environments for Creativity - A Lab for Making Things" Ellen Yi-Luen Do and Mark D Gross, in Shneiderman B, Fischer G, Giaccardi E, Eisenberg M (eds) Creativity and Cognition, pp 27-36, (New York, ACM Press) acceptance rate 23% (24/104) doi>10.1145/1254960.1254965 , <http://portal.acm.org/citation.cfm?id=1254965>

"Tools and Principles for Collaborative Design", Mark D Gross and Ellen Yi-Luen Do, in Tools for Support of Creativity in Collaboration Workshop <http://sites.google.com/site/creativitysupport/> (4 pages) at ACM Creativity and Cognition Conference 2007 <http://www.cs.umd.edu/hcil/CC2007/program/workshop-1.shtml>. <http://sites.google.com/site/creativitysupport/GrossDo.pdf>

"On Context of Content: A Comparative Methodology Review of How HCI and Mass Communication Analyze Blogs and Social Media" Lo Ping Wei, Ellen Yi-Luen Do, Charles M. Eastman, for Work in Progress in CHI 2007, San Jose, April 28 – May 3. (Wei is a CoA Design Cognition PhD student) <http://www.chi2007.org> pp 2753-2758, 212/582, acceptance rate 36% , <http://portal.acm.org/citation.cfm?id=1240866.1241074>

TangiCAD: Tangible Interface for Manipulating Architectural 3D Models," Sherif Morad AbdelMohsen and Ellen Yi-Luen Do, at CAADRIA conference in Nanjing, China, April 19-22, <http://www.caadria2007.org/> (2 stage, abstract and full paper review, acceptance rate 42%, 75/180) (Abdelmohsen, Design Computing PhD student) <http://cumincad.scix.net/cgi-bin/works/Search?search=TangiCAD>, and (CuminCAD login needed), http://cumincad.scix.net/cgi-bin/works/Show?caadria2007_029 or http://www.researchgate.net/publication/30867191_TangiCAD_Tangible_Interface_for_Manipulating_Architectural_3D_Models

Design, Art, Craft, Science: Making and Creativity, Mark D Gross and Ellen Yi-Luen Do, in Science of Design Symposium, by Humboldt University, March 22-24. <http://www.humboldt.edu/~sod/symposium/>. <http://portal.acm.org/citation.cfm?id=1496636> and doi>10.1145/1496630.1496636

2006

"The Designosaur and the furniture factory" Yeonjoo Oh, Gabe Johnson, Mark D Gross, Ellen Yi-Luen Do, International Conference on Design Computing and Cognition (DCC 06), July 10-12, Eindhoven, Netherlands (Oh and Johnson are Computational Design PhD students) pp 123-140, <http://www.springerlink.com/content/rm42g05417643r19/> DOI> 10.1007/978-1-4020-5131-9_7

"Flow Select: A Time-Based Selection and Operation Technique for Sketching Tools" Gabe Johnson, Mark D Gross, Ellen Yi-Luen Do, International Conference of Advanced Visual Interfaces (AVI 2006) in Venice, Italy, May 23-26, 2006 (Johnson is a PhD student) pp 83-86, <http://portal.acm.org/citation.cfm?id=1133281>

"Sketching Human Computer Interactions," Mark D Gross, Ellen Yi-Luen Do, CHI 2006 Conference Workshop of Sketching Nurturing Creativity: Commonalities in Art, Design, Engineering and Research, held April 22-27, 2006 at Montreal, Canada (Gross is faculty colleague)

2004

"Intelligent Critiquing of Design Sketches", Yeonjoo Oh, Ellen Yi-Luen Do, and Mark D Gross, in Making Pen-Based Interaction Intelligent and Natural, Randall Davis, James Landay, Tom Stahovich, Rob Miller, and Eric Saund (eds.), p.127 - 133, October 21-24, 2004, Arlington, Virginia, AAAI Press, Technical Report FS-04-06, ISBN 1-57735-217-3 (Oh is a Computational Design PhD student, Gross is faculty colleague) www.aaai.org/Papers/Symposia/Fall/2004/FS-04-06/FS04-06-020.pdf

"As If You Were Here - Intelligent Annotation in Space: 3D Sketching as an Interface to Knowledge-Based Design Systems", Ellen Yi-Luen Do and Mark D. Gross, in Making Pen-Based Interaction Intelligent and Natural, Randall Davis, James Landay, Tom Stahovich, Rob Miller, and Eric Saund (eds), p. 55-57, October 21-24, 2004, Arlington, Virginia, AAAI Press, Technical Report FS-04-06, ISBN 1-57735-217-3 <http://www.aaai.org/Library/Symposia/Fall/2004/fs04-06-009.php>

"Critiquing Freehand Sketches: A Computational Tool for Design Evaluation", Yeonjoo Oh, Mark D Gross, Ellen Yi-Luen Do, in Visual and Spatial Reasoning in Design III [VR '04] p 105-120, John Gero, Terry Knight (eds.) at MIT, July 22-23. (Oh is Computational Design PhD student)

"Three R's of Design Computing", Mark D Gross and Ellen Yi-Luen Do, for First International Conference on Design Computing and Cognition (DCC '04), p. 613-632, Kluwer, at MIT, July 19-21, 2004 (accepted, 30/140, acceptance rate of 30/14 = 21%). <http://www.springer.com/computer/ai/book/978-90-481-6650-3>

"Between Worlds: Visions and View for the Future of CAD", Ellen Yi-Luen Do and Mark D Gross, in Generative CAD Systems, Edited by Omer Akin, Ramesh Krishnamurti, and Khee Poh Lam, pp. 61-78, Carnegie Mellon University (ISBN 0-9762941-0-9)

"Window Seat: visual experience with an interactive chair", Yeonjoo Oh, Doo Young Kwon, Babak Ziraknejad, Ken Camarata, Ellen Yi-Luen Do, for G-CAD Symposium, July 12-15, Carnegie Mellon University

"FlexM: Designing a Physical Construction Kit for 3D Modeling", Markus Eng, Ken Camarata, Ellen Yi-Luen Do, Mark D Gross, for G-CAD Symposium, July 12-15, Carnegie Mellon University (Eng: M Arch student)

"Espresso CAD: A System to Support the Design of Dynamic Structure Configurations", Michael Philetus Weller, Ellen Yi-Luen Do, Mark D Gross, for G-CAD Symposium, July 12-15, Carnegie Mellon University

"Artifacts for Displaying Home Energy Use", Ken Camarata, Drew Bregel, Ellen Yi-Luen Do, Mark D Gross, for G-CAD Symposium, July 12-15, Carnegie Mellon University

"Design Evaluator: Critiquing Freehand Sketches", Yeonjoo Oh, Mark D Gross, Ellen Yi-Luen Do, for G-CAD Symposium, July 12-15, Carnegie Mellon University

"Computational Tools for Lighting Visualization, Analysis and Design" Ellen Yi-Luen Do, Mark D Gross, in Workshop for Computer Aided Performance Based Architectural Design, for G-CAD Symposium, July 12-15, Carnegie Mellon University

"Toward Design Principles for Invisible Interfaces," Mark D Gross, Ellen Yi-Luen, Do, Workshop on Invisible and Transparent Interfaces, at Advanced Visual Interfaces, AVI 04, Gallipoli, Italy, May 25-28.
<http://www.di.uniba.it/~avi2004/>

"People Pretzel: A Computationally Enhanced Play Board for Group Interaction," Orit Shaer, Babak Ziraknejad, Ken Camarata, Ellen Yi-Luen Do, Mark D. Gross, in Pervasive Computing 2004, Vienna, Austria, April 18-23. Hot Spot Paper, PP. 357-361 (Shaer and Camarata are PhD students, Ziraknejad is Masters student, Gross is faculty colleague) <http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.170.4533>

2003

"MouseHaus Table: A Physical Interface for Urban Design" Chen-Je Huang, Ellen Yi-Luen Do and Mark D. Gross, in UIST, User Interface Software and Technology, Conference Supplement, p 41-42, Vancouver, November 2-5, <http://www.acm.org/uist/> (Huang is a graduate student, Gross is faculty colleague)
<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.5.2427>

"Space Maker: Creating Space by Sketching It," Ming-Chun Lee and Ellen Yi-Luen Do, in annual conference of ACADIA, Association of Computer Aided Design in Architecture, pp. 311-323, Ball State University Oct 23-26, <http://www.acadia.org> (Lee is a PhD student, I was the chair of Lee's Master Thesis. Acceptance rate, 39 paper out of 59 submissions out of 112 = 34-66%, 2-stage double blind review). <http://cumincad.scix.net/cgi-bin/works/Search?search=Lee+Ming-Chun>

"LiQuID: Lighting Quality for Design," James Peng, Ben Liao, Daniel Glaser, John Canny, Ellen Yi-Luen Do, in annual conference of ACADIA, Association of Computer Aided Design in Architecture, pp. 251-261, Ball State University Oct 23-26, <http://www.acadia.org> (Glaser is a PhD student, Canny is faculty colleague, Peng and Liao are undergraduate students. Acceptance rate, 39 paper out of 59 submissions out of 112 abstract submission = 34-66%, 2 stage double blind review)

"Developing Architectural Lighting Representations," Daniel C. Glaser, Roger Tan, John Canny, Ellen Yi-Luen Do, in InfoVis, IEEE Symposium on Information Visualization - Seattle, Oct 19-21, pp. 241-248. <http://www.infovis.org/infovis2003/> (Glaser, a PhD student, Canny, faculty colleague, Tan, undergraduate) <http://www.computer.org/portal/web/csdl/doi/10.1109/INFVIS.2003.1249032>

"The Junk Mail to Spam Converter," Mike Weller, Mark D Gross, Jim Nicholls and Ellen Yi-Luen Do, in International Conference on Ubiquitous Computing, Adjunct Proceedings, pp. 229-230, October 12-15 (Weller is a graduate student, Gross, Nicholls are faculty colleagues. Acceptance rate 42/57=73%)

"LightSketch: a sketch modeling program for lighting analysis" for CAAD Futures 2003, April 28-30, October 13-15, Taiwan, Chiu, Tsou, Kvam, Morozumi, and Jeng (eds.) ISBN 1-4020-1210-1, Kluwer Publisher, pp. 371-382. Daniel C Glaser, Bonnie Tai and Ellen Yi-Luen Do (Glaser is a PhD student, Tai is an undergraduate student, paper acceptance rate 61/116 = 53%) http://www.caadfutures.org/proceedings_03.htm

"LightPen: a sketching system for lighting design in a 3D virtual environment", for CAAD Futures 2003, April 28-30, October 13-15, Taiwan, Chiu, Tsou, Kvam, Morozumi, and Jeng (eds.) ISBN 1-4020-1210-1, Kluwer

Publisher, pp. 327-338. Thomas Jung, Mark D Gross and Ellen Yi-Luen Do (Jung is research assistant, Gross is faculty colleague, paper acceptance rate 61/116 = 53%) http://www.caadfutures.org/proceedings_03.htm

"SPOT! Fetch Light! Interactive navigable 3D visualization of direct sunlight," Sebastien Bund and Ellen Yi-Luen Do, in eCAADe, Education and Research in Computer Aided Architectural Design in Europe, Graz, Austria, pp. 117-124, Sep 17-20, <http://www.ecaade2003.tugraz.at/> (Bund is a graduate student, acceptance rate 121/183 = 66%) <http://dx.doi.org/10.1016/j.autcon.2004.07.007>

"Scythe And Sew: A Tool For Creating Meaningful Patterns In Lighting Simulation Data," biannual IBPSA International Conference and Exhibition on Building Simulation, August 11-14, in Eindhoven, Netherlands. Ben Liao, James Peng, Osbert Feng, Dan Glaser, John Canny, and Ellen Yi-Luen Do. (Liao, Peng and Feng are undergraduate students, Glaser is a PhD candidate, Canny is a Computer Science faculty at UC Berkeley) www.inive.org/members_area/medias/pdf/Inive/IBPSA/UFSC892.pdf

"MouseHaus Table: A Physical Interface for Urban Pedestrian Study," Chen-Je Huang, Ellen Yi-Luen Do and Mark D. Gross, for CAAD Futures 2003, Poster, Taiwan, (Huang is Master of Science student, Gross is faculty colleague). In Digital Design: Research and Practice: CAAD Futures 2003 Poster Papers proceeding, April 28-30, as well as in CAAD Talks 3, Digital Design Education, Mao-Lin Chiu ed. Pp. 170-171. Garden City Publisher, Taipei, Taiwan, ISBN 986770520-3

"LiQuID: A tool for understanding Lighting Quality In 3D architectural Design," James Peng, Ben Liao, Daniel Glaser, John Canny, Ellen Yi-Luen Do, for CAAD Futures 2003, Taiwan, (Peng, Liao are undergraduate students, Glaser is PhD student, Canny is faculty colleague). In Digital Design: Research and Practice: CAAD Futures 2003 Poster Papers proceeding, as well as in CAAD Talks 3, Digital Design Education, Mao-Lin Chiu ed. Pp. 178-179. Garden City Publisher, Taipei, Taiwan, ISBN 986770520-3

"Inspired by Eisenman: ArchiDNA, a creative shape generative system," Doo Young Kwon and Ellen Yi-Luen Do, for CAAD Futures 2003, Taiwan, April 28-30 (Kwon is Master of Science student). In Digital Design: Research and Practice: CAAD Futures 2003 Poster Papers proceeding, as well as in CAAD Talks 3, Digital Design Education, Mao-Lin Chiu ed. Pp. 180-181. Garden City Publisher, Taipei, Taiwan, ISBN 986770520-3

"SPOT: a 3D Interactive Navigable Environment for Direct Sunlight Simulation," Sebastien Bund and Ellen Yi-Luen Do, for CAAD Futures 2003, Taiwan, April 28-30 (Bund is a graduate student and research assistant). In Digital Design: Research and Practice: CAAD Futures 2003 Poster Papers proceeding, as well as in CAAD Talks 3, Digital Design Education, Mao-Lin Chiu ed. Pp. 174-175. Garden City Publisher, Taipei, Taiwan, ISBN 986770520-3

"Window Seat: Interactive Chairware for Experiencing Virtual Spaces," Yeonjoo Oh, Doo Young Kwon, Babak Ziraknejad, Jennifer Lewis, Ken Camarata, Ellen Yi-Luen Do, and Mark D Gross. (Oh, Kwon, Ziraknejad are graduate students, Camarata and Gross are faculty colleagues). In Digital Design: Research and Practice: CAAD Futures 2003 Poster Papers proceeding, as well as in CAAD Talks 3, Digital Design Education, Mao-Lin Chiu ed. Pp. 188-189. Garden City Publisher, Taipei, Taiwan, ISBN 986770520-3

2002

"Multi-Resolution Sky Visualization: daylight design and design tools", Daniel C Glaser, Richard Warfield, Karen Carrier, Alex Lam, YingYing Yong, Ellen Yi-Luen Do, John Canny, Susan Ubbelohde, in ACADIA 2002, Los Angeles, October 24-27. Pp. 251-261 (Glaser is a PhD student, I am Co-Chair of Glaser's dissertation committee, Canny and Ubbelohde are faculty colleagues, others are undergraduate and graduate students working under Glaser's supervision)

"Physical Computing, a design studio that bridges art, science, and engineering", Ken Camarata, Mark D Gross and Ellen Yi-Luen Do, in ICLS, The Fifth International Conference of the Learning Sciences, October 23-26, Seattle. Pp 520-521 (Camarata, research assistant, former M. Arch. Do was Camarata's Thesis chair.)

"Sketching Annotations in a 3D Web Environment", in CHI 2002, Conference on Human Factors in Computing Systems, Association of Computing Machinery, ACM Press, pp. 618-619, April 23-25, Minneapolis. Thomas Jung, Mark D. Gross and Ellen Yi-Luen Do (Jung is a research assistant, paper acceptance rate is 32%, 62 short talks, 60 interactive posters out of 374 submissions)

"Navigational Blocks: Tangible Navigation of Digital Information", CHI 2002, Conference on Human Factors in Computing Systems, Association of Computing Machinery, ACM Press, pp. 752-753, Ken Camarata, Ellen Yi-Luen Do, Mark D. Gross and Brian R. Johnson. (Camarata is a research assistant, former M. Arch student,

Gross and Johnson are faculty colleagues on Camarata's Thesis committee, Do is committee chair, paper acceptance rate is 32%, 62 short talks, 60 interactive posters out of 374 submissions)

"Digital Sandbox: integration of design and analysis in digital earth-forming", Ellen Yi-Luen Do, in Artificial Intelligence in Design, (ed.) John Gero, Kluwer Academic Publisher, July 15-17, Cambridge University, UK. pp. 165-188 (Blind review. Acceptance rate 30%, 28 papers accepted)

"Functional and Formal Reasoning in Architectural Sketches", Ellen Yi-Luen Do, in Sketch Understanding, AAAI Spring Symposium, AAAI Technical Report SS-02-08, March 25-27, Stanford University, AAAI (American Association for Artificial Intelligence) Press, Menlo Park, California, (eds. Randall Davis, James Landay, and Tom Stahovich) pp. 37 - 44.

"Annotating and Sketching on 3D Web Models", Thomas Jung, Mark D Gross and Ellen Yi-Luen Do, International Conference on Intelligent User Interfaces (IUI), ACM Press pp. 95-102, January 13-16, San Francisco (Acceptance rate 30%, 22 papers out of 71 submissions)

"Navigating Information Space with Tangible Media", January 13-16, San Francisco, 2002 International Conference on Intelligent User Interfaces (IUI), ACM press, Ken Camarata, Ellen Yi-Luen Do, Brian R Johnson and Mark D Gross, pp. 31-38 (Acceptance rate 30%, 22 papers out of 71 submissions)

2001

"Graphics Interpreter of Design Actions: the GIDA system of diagram sorting and analysis", Ellen Yi-Luen Do, in Computer Aided Architectural Design Futures (CAAD Futures 2001), Bauke de Vries, Jos P. van Leeuwen, Henri H. Achten (eds), Pp. 271-284. July 2001, Eindhoven, the Netherlands, Kluwer Academic Publishers Acceptance rate 48-50% (48 -58 papers, from 67 abstracts, selected from 167 submissions, double review)

"VR Sketchpad: Creating Instant 3D Worlds by Sketching on a Transparent Window", Ellen Yi-Luen Do, in, CAAD Futures 2001, Bauke de Vries, Jos P. van Leeuwen, Henri H. Achten (eds), pp.161-172, July, 2001, Eindhoven, the Netherlands, Kluwer Academic Publishers. Acceptance rate 48-50% (48 -58 papers, from 67 abstracts, selected from 167 submissions, double review)

"Space Pen, Annotation and Sketching on 3D Models on the Internet", Thomas Jung, Mark D. Gross and Ellen Yi-Luen Do, in CAAD Futures 2001, Bauke de Vries, Jos P. van Leeuwen, Henri H. Achten (eds), pp.257-270, July, 2001, Eindhoven, the Netherlands, Kluwer Academic Publishers. Acceptance rate 48-50% (48 -58 papers, from 67 abstracts, selected from 167 submissions, double review)

"The Design Amanuensis, An Instrument for Multi-modal Design Capture and Playback", Mark D. Gross, Ellen Yi-Luen Do, and Brian R. Johnson, CAAD Futures 2001, Bauke de Vries, Jos P. van Leeuwen, Henri H. Achten (eds), pp. 1-13, July 2001, Eindhoven, the Netherlands, Kluwer Academic Publishers. Acceptance rate 48-50% (48 -58 papers, from 67 abstracts, selected from 167 submissions, double review)

"Smart Objects: Constraints and Behaviors in a 3D Design Environment", Dustin Eggink, Mark D. Gross, Ellen Yi-Luen Do, in Proceedings of 19th Conference on Education in Computer Aided Architectural Design in Europe (eCAADe), Helsinki, August 31, 2001, pp. 460-465. (Eggink is a Master student, paper blind reviewed)

"Sketching Interfaces for Conceptual Design and Analysis in Architecture", Ellen Yi-Luen Do, in CHI Workshop, Tools, Conceptual Frameworks, and Empirical Studies for Early Stages of Design. April 2001, Seattle Acceptance rate 50%. (12 out of 24 submissions)

2000

"Immersive Redliner: Collaborative Design in Cyber Space", Thomas Jung and Ellen Yi-Luen Do, in ACADIA 2000, Associations of Computer Aided Design in Architecture National Conference (October 19-22), Eternity, Infinity and Virtuality in Architecture, Catholic University, Washington D.C. (eds) Mark Clayton, Guillermo P. Vásquez de Velasco. pp. 185-194 (Jung is a research assistant, paper acceptance rate 57%, 24 out of 42).

"Sketch that Scene for me: Creating Virtual Worlds by Freehand Sketching", Ellen Yi-Luen Do, in eCCADe 2000 (June 22-24) Education in Computer Aided Architectural Design in Europe (eCAADe) and IKM (International Colloquium on the Application of Computer Science and Mathematics in Architecture and Civil Engineering), pp. 265-268, Dirk Donath (ed) Weimar, Germany

"Beyond the low-hanging fruit: Information Technology in Architectural Design, past, present and future", Mark D. Gross, Ellen Yi-Luen Do and Brian R. Johnson, in ACSA Technology Conference, pp. 100-106. William Mitchell and John Fernandez (eds), MIT. (July 14-17)

- 1999 "Digital Media and the Language of Vision", Bennett Neiman and Ellen Yi-Luen Do, in Media and Design Process, Proceedings of Association of Computer Aided Design in Architecture (ACADIA) 1999 Conference, pp. 70-80, O. Ataman & J. Bermudez (eds.) Salt Lake City - Snowbird, Utah (October, '99) Acceptance rate 25-30%. (20 papers out of 65-80 papers)
- "Immersive redlining and annotation of 3D design models on the Web". Thomas Jung, Mark D. Gross and Ellen Yi-Luen Do, in Computers in Building (June, '99) Proceedings of the CAAD Futures '99 Conference, G. Augenbroe & C. Eastman (eds.) pp. 81-98. Acceptance rate 20% (25 papers from 55 abstracts, selected from 105 submissions, double review)
- "Drawing and Design Intentions -- an investigation of freehand drawing conventions in design," Ellen Yi-Luen Do, Mark D. Gross, and Craig M. Zimring, in Design Thinking Research Symposium '99 (April, '99). W. Porter & G. Goldschmidt (eds.) pp. 1-10
- "Sketches and Their Functions in Early Design: A Retrospective Analysis of Two Houses". Bennett Neiman, Ellen Yi-Luen Do, and Mark D. Gross, In Design Thinking Research Symposium '99 (April, '99) W. Porter & G. Goldschmidt (eds.) pp. 255-266
- "Integrating Digital Media in Design Studio: Six Paradigms". in ACSA '99 (March, '99) Annual National Conference Proceedings for American Collegiate Schools of Architecture. Mark D. Gross and Ellen Yi-Luen Do, pp. 144-148
- 1997 "The Design Studio Approach: Learning Design in Architecture Education". In Design Education Workshop, J. Kolodner & M. Guzdial (eds.) EduTech/NSF, College of Computing, Georgia Institute of Technology, September 8-9, 1997, Atlanta, Ellen Yi-Luen Do and Mark D. Gross
- "Computability of Design Diagrams -- an empirical study of diagram conventions in design" In CAAD Futures 97, pp. 171-176, edited by R. Junge, Munich. Kluwer. (August 3-6. 1997, Munich. (Acceptance rate 20-25%)
- "Tools for Visual and Spatial Analysis of CAD Models -- implementing computer tools as a means to thinking about architecture". Ellen Yi-Luen Do and Mark D. Gross, in CAAD Futures 97, pp. 189-202, R. Junge (ed.). Munich, Germany, Kluwer Publisher (Acceptance rate 20-25%)
- "Collaboration and Coordination in Architectural Design: approaches to computer mediated team work" in GVU/NIST workshop on Collaborative Design, TeamCAD 97, Atlanta, GA. Mark D. Gross, Ellen Yi-Luen Do, Raymond J. McCall, Wayne V. Citrin, Paul Hamill, Adrienne Warmack, Kyle S. Kuczun, pp. 465-473
- "Inferring Design Intention from Sketches -- an investigation of freehand drawing conventions in design". Ellen Yi-Luen Do and Mark D. Gross, in CAADRIA '97, edited by Y. L. Liu & J. Y. Tsou Taipei: Hu's Publishing, pp. 217-227.
- 1996 "The Right Tool at the Right Time -- drawing as an interface to knowledge based design aids." Ellen Yi-Luen Do, in Proceedings, National Conference, Association for Computer Aided Design in Architecture 1996, (ACADIA 96), Filiz Ozel and Patricia McIntosh (eds.), University of Arizona, Tucson, pp. 191-199. (Acceptance rate 30 - 33%)
- "Ambiguous Intentions -- a paper-like interface for creative design." Mark D. Gross and Ellen Yi-Luen Do, in Proceedings, Ninth Annual Symposium for User Interface Software and Technology, (UIST 96), pp. 183-192. Marc Brown and Ramana Rao (eds.), Seattle, ACM Press, New York (Acceptance rate is 25 - 30%).
- "Reasoning about Cases with Diagrams", Ellen Yi-Luen Do and Mark D. Gross, in Third Congress on Design Computing, A/E/C '96, Anaheim, American Society of Civil Engineers, Jorge Vanegas and Paul Chinowsky (eds.), pp. 314-320, ASCE.
- "Drawing as a Means to Design Reasoning" Ellen Yi-Luen Do and Mark D. Gross, in Visual Representation, Reasoning and Interaction in Design Workshop, Artificial Intelligence in Design '96, 22-27, June, 1996, Stanford University.
- "Demonstrating the Electronic Cocktail Napkin: a paper-like interface for early design." Mark D. Gross and Ellen Yi-Luen Do, In CHI 96, Conference on Human Factors in Computing Systems, Conference Companion, Addison Wesley: pp. 5-6. Vancouver, British Columbia, Canada, ACM Press, New York (Acceptance rate is 15-20%).

- “Structuring cases in a case-based design aid.” Craig Zimring and Sonit Bafna, and Ellen Yi-Luen Do, in Third Congress on Design Computing, Anaheim, A/E/C '96, American Society of Civil Engineers, Jorge Vanegas and Paul Chinowsky (eds.), pp. 308-313, ASCE.
- 1995 “What's in a diagram that a computer should understand.” Ellen Yi-Luen Do, in The Global Design Studio, Proceedings of the Sixth International Conference on Computer Aided Architectural Design Futures (CAAD Futures 95), Milton Tan and Robert Teh (eds.), pp. 469-482, National University of Singapore, Singapore 1995. (Acceptance rate is 30%).
- “Diagram Query and Image Retrieval in Design.” Mark D. Gross and Ellen Yi-Luen Do. In 2nd IEEE International Conference on Image Processing, Washington, D. C., IEEE Computer Society Press, pp. 308-311, Vol. 2
- “Shape based reminding as an aid to creative design.” Ellen Yi-Luen Do and Mark D. Gross, in The Global Design Studio, Proceedings of the Sixth International Conference on Computer Aided Architectural Design Futures (CAAD Futures 95), Milton Tan and Robert Teh (eds.), pp. 79-90, National University of Singapore, Singapore 1995. (Acceptance rate is 30%).
- “Supporting Creative Architectural Design with Visual References.” Mark D. Gross and Ellen Yi-Luen Do, in Computational Model of Creative Design, John Gero and Fay Sudweeks Tan (eds.), pp. 37-58, Key Centre for Design Computing, University of Sydney, Australia. (Acceptance rate is 50%).
- “Drawing Analogies: Finding Visual References by Sketching.” Ellen Yi-Luen Do and Mark D. Gross. In ACADIA 95, Computing in Design, enabling, capturing and sharing ideas in Seattle, Association of Computer Aided Design In Architecture, pp. 35-52. (Acceptance rate 25-30%, 20 out of 65-80 papers)
- “Supporting Case-Study Use in Design Education: A Computational Case-Based Design Aid for Architecture” Craig Zimring, Ellen Yi-Luen Do, Eric Domeshek, and Janet Kolodner, in A/E/C '95, American Society of Civil Engineers pp. 308-313
- 1994 “Using post-occupancy evaluation to aid reflection in conceptual design: Creating a case-based design aid for architecture”, Craig Zimring, Ellen Yi-Luen Do, Eric Domeshek, and Janet Kolodner, in Design Decision Support System, Harry Timmermans (ed), Vaals, Switzerland. <http://cumincad.scix.net/cgi-bin/works/Search?search=Domeshek> and (CuminCAD login needed) <http://cumincad.scix.net/cgi-bin/works/Show?ddss9507>
- “Using Diagrams to Access a Case Base of Architectural Designs” Mark D. Gross, Craig Zimring and Ellen Yi-Luen Do, in J. Gero (eds.), Artificial Intelligence in Design '94, pp. 129-144, Lausanne, Kluwer Publisher. (Blind review, 3 reviews each paper. Acceptance rate 33%) ([Amazon page](#))

GRANTS, AWARDS, SCHOLARSHIP, HONORS

- 2014 Second Place in the Stanford Center on Longevity Design Challenge, students in Ellen’s class Kok Hua Bin, Yang Tzuhsuan, with researchers R.A. Nimesha Ranasinghe, Lee Kuan-yi and intern Gajan Suthokumar won the 2nd Place in the Stanford Center on Longevity Design Challenge with their project entry "Taste +". <http://longevity3.stanford.edu/design-challenge-winners-announced/>
- Keio-NUS Connective Ubiquitous Technology for Embodiments (CUTE) Center, S\$ 10 million, duration 2009-2016, supported by the Singapore National Research Foundation under its International Research Center Keio-NUS CUTE Center @ Singapore Funding Initiative and administered by the IDM Program Office, Singapore (PI: Ellen Yi-Luen Do, April 2013 – March 2015) <http://cutecenter.nus.edu.sg>
- VR MedSIM, Virtual Reality Medical Simulation, including Virtual Interactive Human Anatomy – VIHA and Virtual Interactive Simulation Environment – VISE, with Centre for Healthcare Simulation, Yong Loo Lin School of Medicine, National University of Singapore, PI: Suresh Pilai (MedSchool), Ellen Yi-Luen Do, Weiquan Lu (CUTE) \$ 3.04 M SGD (Sep 2014 – Aug 2017)

- Silver Sense, a Smartphone Application for Elderly Wellness Monitoring, Active Ageing Council, People's Association, \$20k SGD, PI: Ellen Yi-Luen Do (July 2014 – March 2015)
- 3D Display Application Development for Augmented Learning, with Tohoku University, Research Institute of Electrical Communication (RIEC), PI: Ellen Yi-Luen Do, \$18.37 M Yen (\$ 200k SGD)
- 2013 Development of the location-aware variable message sign for route bus transportation, Mitsubishi Heavy Industries (MHI), PI: Masaaki Sato (CUTE) (1,215000 JPY =S\$15,000)
- “LORDS: Location ORiented Description Service based on Smartphone Probe Vehicle System” for research and development of location and digital contents distribution system, and field test. (\$2.6M JPY = \$28k SGD)
- 2011 ACADIA Award for Innovative Research, award ceremony held in Banff, Canada at the annual International Conference for Association of Computer Aided Design in Architecture (ACADIA 2011) Oct 11 – 16, <http://www.acadia.org/acadia2011/acadia.html>, http://www.acadia.org/previous_recipients.htm
- SHB:Small: InteCog System: ClockReader+ and CogStim Game for Screening and Preventing Cognitive Impairment, National Science Foundation, Smart Health and Wellbeing, \$102,000, (notification 6/5/2011, for 9/2011 – 8/2012) Proposal ID: IIS-1117665, submitted 12/7/2010, PI: Ellen Yi-Luen Do
<http://www.nsf.gov/pubs/2010/nsf10575/nsf10575.htm>,
<http://nsf.gov/awardsearch/showAward.do?AwardNumber=1117665>
- Understanding the Role of Healthcare Facility Design in the Acquisition of Healthcare Associated Infections (\$225,000, submitted 6/6/2011, funded, notification 9/2011) to Research Triangle International (RTI) to AHRQ – Agency for Healthcare Research and Quality. PIs: Craig Zimring, Ellen Yi-Luen Do, David Cowan, Jennifer DuBose.(Sep 2011 – Aug 2012)
- Workshop: Graduate Student Symposium at ACM Creativity & Cognition (C&C 2011) Conference National Science Foundation, CISE Information and Intelligent Systems Division, \$22,020 (Award Id: IIS-1137527, awarded 5/2/2011 5/1/2011 – 4/30/2012), PI: Ellen Yi-Luen Do
<http://nsf.gov/awardsearch/showAward.do?AwardNumber=1137527>
- IMC System – Intelligent Mini-Cog Test For Mild Cognitive Impairment, to Emory ADRC/ACTSI Pilot Grant (\$23,754, funded 2/11), PIs. Ellen Yi-Luen Do, James Lah (Emory Neurology)
[http://www.actsi.org/areas/tracking/documents/news/ADRC ACTSI Pilot Grant Announcement 4 Nov 2010_v1-0.pdf](http://www.actsi.org/areas/tracking/documents/news/ADRC_ACTSI_Pilot_Grant_Announcement_4_Nov_2010_v1-0.pdf)
- ClockReader⁺ – A Computerized Neuropsychological Diagnosis Tool for Detecting and Monitoring Cognitive Impairment, funded by Korea Institute for Advancement of Technology (KIAT), Seoul, Korea, PI: Ellen Yi-Luen Do, 40,000,000 KRW = \$34,724 (funded 12/22/2010, Global Industry-Academia Cooperation Program, <http://www.kiat.or.kr>
- First Prize, Hyungsin Kim, my PhD student on the ClockReader research project won Gold Medal (first prize) at ACM CHI 2011 Conference's Student Research Competition (SRC) May 7-12, in Vancouver.
<http://src.acm.org/winners.html>, <http://portal.acm.org/citation.cfm?id=1979512>
- Second Prize, Talk to the Hand” by Halley Profita and Scott Gilliland was awarded 2nd Overall, and 2nd Concept in the ISWC (International Symposium on Wearable Computers) Design Competition, June 12-15, in San Francisco. Co-located with pervasive conference. Profita is MID Student just graduated. I was her thesis advisor. Gilliland was a former MS HCI student in my Onsite Center class. <http://www.iswc.net/iswc11/> & <http://pervasiveconference.org/2011/program.html#ISWCsessions>
- 2010 Best Paper Gold Award - “Move, Beam, and Check! Imagineering Tangible Optical Chess on An Interactive Tabletop Display” Andy Wu, David Joyner and Ellen Yi-Luen Do, in 7th International Conference on Advanced in Computer Entertainment Technology, Nov 17-19, Taipei, Taiwan, <http://ace2010.ntpu.edu.tw/award.html> (Wu and Joyner are current PhD student, the project started in my Design Games class)
- 2009 “CHERO – Comprehensive Health Encounter Room for On-Site Clinics – developing research, analysis and virtual library of best practices” to Comprehensive Health Services, PI: Ellen Yi-Luen Do (\$155,000, funded)
- ClockReader - Investigating Automated Recording and Analysis of Clock Drawing Test for Detecting Cognitive Impairment, PI: Ellen Yi-Luen Do, Co-PI: Allan Levey (Emory Center for Neurodegenerative Disease and

Alzheimer's Disease Center, Emory University) \$34,100 funded, August 7, 2009
<http://www.hsi.gatech.edu/research/seedgrants/profile.php?gid=99>

Helping Hand - A Light-Weight Glove That Locates and Identifies Objects for the Visually Impaired, <http://www.hsi.gatech.edu/research/seedgrants/profile.php?gid=131>, PI: Ellen Yi-Luen Do, Co-PI: David Ross (Atlanta VA Rehab R&D Center of Excellence in Vision Loss), Marc Lawson (MS HCI), \$50,000 funded, August 7, 2009

(* Do received 2 HSI Seed Grant out of 8 selected from 40 submissions, 20% acceptance rate)

<http://www.hsi.gatech.edu/research/seedgrants/>

- 2008 "Mobile Music Touch: A Lightweight Wearable Haptic System For Hand Rehabilitation Through Passive Learning of Musical Playing Skills," Center for Music Technology, Georgia Institute of Technology, granted by Director Gil Weinberg, PIs: Ellen Yi-Luen Do, Thad Starner, Deborah Backus, Kevin Huang [granted September 2008, for Spring 2009, \$10,000 GRA]
- "Interactive Waiting Room" concept projects sponsorship from NCR, [granted October 23, 2008, \$12,000 gift], PI: Ellen Yi-Luen Do (Health Systems Institute and GVU Center)
- "Emergency Room of the Future" a class sponsored by Perkins + Will, [granted September 2008, \$10,000 gift] PIs: David Cowan (Health Systems Institute), Craig Zimring and Ellen Yi-Luen Do
- 2007 "Pediatric Center of the Future" a class sponsored by Perkins + Will, [granted August 2007, \$25,000 gift] PIs: David Cowan (Health Systems Institute), Craig Zimring and Ellen Yi-Luen Do
- "Building High Performance Healthcare: Physical Environment" by Robert Wood Johnson Foundation, [granted January 2007, \$749,896] PIs: Craig Zimring, Godfried Augenbroe, Ellen Yi-Luen Do, Sheila Bosch, Jennifer DuBose
- "Designing Healthcare of the Future, Multi-Disciplinary Approaches to Applying Innovation in the Design of a Pediatric Healthcare Center" [granted September 2007, \$50,000] by Health Systems Institute Seed Grant, PIs: Craig Zimring, Ellen Yi-Luen Do, David Cowan (Health Systems), Gerri Lamb (Emory Nursing) and Julia Jones (Children's at Hughes Spalding)
- 2006 "Healthcare Design Web" by Center for Health Design, [granted October 2006, \$183,798] PIs: Craig Zimring, Ellen Yi-Luen Do
- "Patient Room of the Future," a class sponsored by Steelcase [granted August 2006, \$25,000 gift] PIs: Ellen Yi-Luen Do, Craig Zimring
- "Ambient Devices for Home Energy Awareness" for Creating Energy Options (CEO) Program, Strategic Energy Initiatives, Georgia Institute of Technology [granted April 14, \$ 6,000 and one year GRA tuition] PI: Ellen Yi-Luen Do
- 2005 Environmental Award, Carnegie Mellon Spring Carnival, Studio X, "Home 2020, Imagine the Future, Build it Today!" <http://code.arc.cmu.edu/home-2020/>
- "Thinking with Your Hands", A SURE Thing (Summer Undergraduate Research Experience) [\$4,000 to support Carlie Roberts from Grove City College to work at Carnegie Mellon University], PI: Ellen Yi-Luen Do
- 2004 "Thinking with your Hands: Making 3-Dimensional Design and Production More Intuitive", FY05- PITA_ICES Research Seed Fund [granted Dec. 2004, \$44,224], Pennsylvania Infrastructure Technology Alliance (PITA), Institute for Complex Engineered Systems (ICES). PI: Ellen Yi-Luen Do, Co-PI: Susan Finger, Mark D Gross.
- 2003 "Interactive Tools for Visual and Spatial Reasoning," Summer Undergraduate Research Program (SURP), [\$3,400] sponsored by Washington NASA Space Grant Consortium, PI: Ellen Yi-Luen Do
- "Evaluating, Developing Tablet PC Applications," evaluation pack and gift from Microsoft Corporation, Learning Sciences, Research Enablement [granted April 2003, 2 Toshiba Tablet PCs, \$ 2,400 each, USB hubs and software development kit and programmer's guide, \$ 3,138.89]. PI: Ellen Yi-Luen Do
- Jeannette and David McKinley Faculty Award [\$ 2,500] for "Design and Implementation of Self-configuring Building Blocks"

- 2002 “Enhancing Spatial Reasoning and Visual Cognition for Early Science and Engineering Students with 'Hands-on' Interactive Tools and Exercises” for NSF (National Science Foundation) CCLI (Courses, Curriculum and Laboratory Improvement) Program, NSF-01-58 [granted March 15, DUE-0127579. \$ 74,984.00] PI: Ellen Yi-Luen Do
- “Learning Via Distributed Dialogue: Livenotes and Handheld Wireless Technology”, for CILT (Center for Innovative Learning Technologies), Seed Grant (www.cilt.org), PI: John Canny, University of California at Berkeley, Co-PI: Ellen Yi-Luen Do, project participants include Rogers Hall, Alastair Iles, Dan Glaser, Matthew Kam, and Christopher Wu [\$ 9,990, granted July, 2002]
- ArchiCAD software, [\$ 7,500], Graphicsoft U.S. Inc. Software Grant
- College Group Project Award [\$ 200], for Fall 2001 Studio, Interdisciplinary Collaboration of Northgate Redevelopment Charrette, <http://courses.washington.edu/studio01/charette>
- 2001 Jeannette and David McKinley Faculty Award [\$ 2,500] for “Designing the Interface and Communication Control for the Future Home Environments”
- The Varey Award [\$ 1,250] for “transforming 2-D Drawings of Urban Spaces into 3-D Virtual Reality” (Undergraduate Research Award for Brian Porter), PI: Ellen Yi-Luen Do
- Best Paper of the Year 2000, Third Prize, Journal of *Computers & Graphics*, for the paper “Drawing on the back of an envelope” in *Computers and Graphics*, Vol. 24, No. 6, pp 835-849, Calligraphic Interface, Joaquim A Jorge and Ephraim Glinert (eds) New York, Pergamon Press. Mark D. Gross and Ellen Yi-Luen Do. (total 6 issues, 80 papers in year 2000)
- 2000 “Design Education for the Future,” Tools for Transformation Grant, University of Washington [granted August 1, \$ 328,248], for information infrastructure upgrade of Architecture Hall and the experimental Digital Design Studio, Lead Author. (Co-authors: Department Chair Jeffrey K. Ochsner, colleagues: Mark D. Gross and Brian R. Johnson)
- 1999 “Leadership in Design Computing”, for Department of Architecture, College of Architecture and Urban Planning, University of Washington, (co-PI with Mark D. Gross). Includes Architecture Hall remodeling (\$ 200,000), capital equipment, supplies and support for physical improvement, and creation of Digital Design Suite including the Digital Design Studio, Seminar Room, Faculty Offices, and the Design Computing Research Lab (3 year operation seed funds \$ 255,508).
- 1998 SmarterKids Grant, SmarterKids Foundation [\$ 1,000], Equipment Grant.
- 1997 Cognitive Science Fellowship, HCIC (Human Computer Interaction Consortium), University of Colorado, Boulder, Travel Grant
- NSF, IIS 96-19856, “The Back of an Envelope: An Architecture for Knowledge Based Design Environment” [\$ 323,742], as senior personnel, PI: Mark D Gross
- 1996 AID '96 Scholarship, Fourth International Conference on Artificial Intelligence in Design, Travel Grant
- 1995 HI '95 Scholarship, Travel Grant
Key Centre of Design Computing, University of Sydney
International Conference on Computational Models of Creative Design
- 1994 SGAICO Scholarship (for AI in Design), Travel Grant
Swiss Group for Artificial Intelligence and Cognitive Science
- Outstanding Teaching Award
College of Architecture, Georgia Institute of Technology
- Cognitive Science Student Travel Grant
College of Computing, Georgia Institute of Technology
- 1990 Scholarship for Outstanding Youth, Harvard Club of Republic of China

- Honorable Mention in annual research conference
National Conference in Architecture & Urban Studies, Taiwan, ROC
- 1989 First Prize Design
Competition of Hsi-Chih Commercial Building, Taipei, Taiwan ROC
(with C.H. Ho International, architects and Planners)
- 1988 First Prize Thesis design Project
A Spatial Constitution of Contemporary Settlers Community (joint work with Yu-Hua Wang)
- NCKU Alumni Association Design Award
National Cheng Kung University Alumni Association
- National Outstanding Youth
China Youth Corps, Taiwan, Republic of China
- Outstanding Youth, National Cheng Kung University
- 1987 Excellent Performance, Youth Mission Corps
Great Alliance for China's Re-unification under the Three Principles of the People
Position as vice president, stage designer and actress
- 1986 First Prize (portrait), Second Prize (building) and Fine Work Prizes (both categories)
N. C. K. U. Photo Contest
- Principal Scholastic Excellence Award, National Cheng Kung University
- Fourth Prize, National Youth Modern Drama Contest
N. C. K. U. Drama Society, position as Vice president, stage designer and actress
- 1984 Scholarship, Cooperative Bank of Taiwan
- Principal Scholastic Excellence Award, National Cheng Kung University

GRANT PROPOSALS SUBMITTED

- 2012 National Endowment for the Arts (NEA) proposal, Story Sketch: supporting creative expression of visual narratives (submitted, not funded)
- EFRI-ODDISSEI: Bio-Ori - Biologically-Inspired Ontological Framework and Engineering Design for Self-Transforming Mechanisms, to National Science Foundation, Office of Emerging Frontiers in Research and Innovation, EFRI (\$1,999,918, preliminary proposal submitted 11/09/2011, not invited). PIs: Jeannette Yen, Ellen Yi-Luen Do, David Hu, Silas Alben, Russel Gentry
- SHB: Type II (INT): Collaborative Research: Computational Approach to Characterizing Progression of Mild Cognitive Impairment and Alzheimer's Disease, to National Science Foundation, Division of Information & Intelligent Systems, cross-cutting program, Smart Health and Wellbeing (\$999,930. submitted 2/21/2012, under review, status pending). PIs: Gregory Abowd, James Rehg, Ellen Yi-Luen Do, Thad Starner, Irfan Essa
- SHB: Type I (EXP): ClockAnalyzer: Computational Behavioral Analysis for Neurological Examination, to National Science Foundation, Division of Information & Intelligent Systems, cross-cutting program, Smart Health and Wellbeing (\$599,999, submitted 2/6/2012, not funded). PI: Ellen Yi-Luen Do
- Mental Models and Creative Problem-Solving in Computer Science, submitted to National Science Foundation, Division of Behavioral and Cognitive Sciences BCS (\$1,449,465, submitted 2/2/2012, not funded). PIs: Michael Mumford, Ellen Yi-Luen Do, Dean Hougen
- 2011 EFRI-ODDISSEI: Bio-Ori - Biologically-Inspired Ontological Framework and Engineering Design for Self-Transforming Mechanisms, to National Science Foundation, Office of Emerging Frontiers in Research and

Innovation, EFRI (\$1,999,918, preliminary proposal submitted 11/09/2011, not invited). PIs: Jeannette Yen, Ellen Yi-Luen Do, David Hu, Silas Alben, Russel Gentry

Developing Intelli-Cog system for MCI Screening and Analysis, to Early Detection-Cognitive Testing and Neuropsychometrics Program, Alzheimer's Drug Discovery Foundation, <http://www.alzdiscovery.org/> (\$150,000, Letter of Intent submitted 3/18/2011, not funded). PI: Ellen Yi-Luen Do

Cognitive Stimulation Games to Prevent Aging-related Cognitive Impairment, to Alzheimer's Association International Grant Program (Letter of Intent submitted 1/10/11, and accepted. \$240,000, Proposal submitted 2/16, not funded). PI: Ellen Yi-Luen Do, http://www.alz.org/research/alzheimers_grants/overview.asp

Inclusive Play Environment, submitted to FIP (Field-Initiated Projects) to NIDRR – National Institute on Disability and Rehabilitation Research (\$200,000, proposal submitted 2/6, status pending), PI: Abir Mullick (ID), Senior Personnel: Tim Purdy (ID), Ellen Yi-Luen Do, Sarah Endicott (CATEA), David S Gordon (Living through Learning Foundation) <http://www2.ed.gov/programs/fip/index.html>

2010 InteCog System: ClockReader+ and CogStim Game for Screening and Preventing Cognitive Impairment, submitted to National Science Foundation, Smart Health and Wellbeing (12/7 submitted, \$499,996, budget revision \$102,000, funded in 2011). PI Ellen Yi-Luen Do <http://www.nsf.gov/pubs/2010/nsf10575/nsf10575.htm>

ClockReader + - A Computerized Neuropsychological Diagnosis Tool for Detecting and Monitoring Cognitive Impairment, submitted to Joint Coulter-ACTSI Translational Research Grant Program, PIs: Ellen Yi-Luen Do, Michelle LaPlaca (Biomedical Engineering), Dr. Allan I Levy (Emory Center for Neurodegenerative Disease and Alzheimer's Disease Research Center), \$140,776, submitted 10/26, not funded http://www.atlantactsi.org/news/2010/joint_grant.html

2009 "HealthQuest: A Ubiquitous Technology to Motivate Employees to Increase Everyday Steps" NCIIA, National Collegiate Inventors and Innovators Alliance, PIs: Ellen Yi-Luen Do (faculty), Hyungsin Kim, Tina Seunghyun Lee, Matthew Swarts, Lauren Calvert (student team), \$20,000, submitted 12/4/2009, not funded

EFRI-SEED Preliminary Proposal: Center for Adaptive Buildings with Integrated Systems (CABInS), Office of Emerging Frontiers in Research and Innovation (EFRI) National Science Foundation, PI: Erica Ryherd, Co-PIs: Ellen Yi-Luen Do, Gregory Corso (\$1,999,816.00, submitted 11/13/2009, not funded).

Collaborative Research: CI-ADDO: A Universal Data Repository for Sketch Recognition Datasets, National Science Foundation, Division of Information & Intelligent Systems IIS (248,257.00, submitted 8/5/2009, not funded), PI: Ellen Yi-Luen Do, Collaborating PI: Tracy Hammon, Texas A & M University

"iVis - Investigating visual search behavior of the visually impaired in complex environments," Health Systems Institute Seed Grant, PIs: Ellen Yi-Luen Do, Ron Schuchard (Atlanta Veteran's Administration R&D Center of Excellence), Matthew Swarts and Hyungsin Kim Georgia Institute of Technology (\$50,000, not funded)

"Grocery Hunter in an Immersive 3D Virtual Supermarket: Designing a health game for children, Health Systems Institute Seed Grant, PIs: Ellen Yi-Luen Do, Seema Csukas (Children's Healthcare of Atlanta), Ruth Bell (CHOA), Matthew Swarts and Hyungsin Kim Georgia Institute of Technology (\$50,000, not funded)

"Baby Bottle Bud - research and instrumentation for sensing and transmitting data about suction, tongue movement and fluid flow of infant feeding pattern" Health Systems Institute Seed Grant, PIs: David L. Jaquess Ph.D., Licensed Psychologist Director of Pediatric Feeding and Pediatric Psychology Programs, Marcus Autism Center, Ellen Yi-Luen Do, Associate Professor, Director of ACME Lab and Health Space Futures, College of Architecture and College of Computing, William Gary Sharp, PhD., Behavioral Pediatric Psychologist, Feeding Disorders Program The Marcus Autism Center, Jeannette Yen, Professor, Biology, Director, Center for Biologically-Inspired Design, College of Science, Georgia Institute of Technology, Heidi S. Liefer MS, CCC-SLP, CLC, Speech Language Pathologist, Feeding Specialist, Children's Healthcare of Atlanta (\$50,000, not funded)

"Grocery Hunter in an immersive 3D virtual supermarket" for RWJF, Robert Wood Johnson Foundation: Health Game Research, PIs: Ellen Yi-Luen Do, Hyungsin Kim (\$300,000, not funded)

2008 "TIM-HHA - Technological Interventions and Measurement for Hand Hygiene Adherence, for CDC 2008-R-20, Developing Measures to Assess Compliance: MRSA and related organisms, PIs: Dr. James P Steinberg (Chief

Medical Officer, Emory Crawford Long Hospital), Ellen Yi-Luen Do, Craig Zimring (Do is the main author, \$600,000, not funded)

“Designing Tangible Interactions Through Metaphors” for GVU Innovation Grant, PIs: Ellen Yi-Luen Do, Ashok Goel, Blair MacIntyre, Iulian Radu (\$25,000, not funded)

“A Digital Workspace of One’s Own: Organization of design workspace and knowledge capital in support of the creative process” for GVU Innovation Grant, PIs: Ellen Yi-Luen Do, Richard Catrambone, John Stasko, Carol Bales (\$25,000 not funded)

“Designing Infant Toddler Illness-Notification Toolkit” for Health Systems Institute Seed Grant, PIs: Ellen Yi-Luen Do, Dr. John Cheng (Department of Pediatrics, Emory University and Children’s Healthcare of Atlanta), Chung-Lun Kuo (\$50,000, not funded)

“Mobile Music Touch: A Lightweight Wearable Haptic System For Hand Rehabilitation Through Passive Learning of Musical Playing Skills” for Health Systems Institute Seed Grant, PIs: Ellen Yi-Luen Do, Thad Starner, Deborah Backus (Shepherd Center – Spinal Cord Injury Rehabilitation and Brain Injury Rehabilitation), Kevin Huang (\$50,000, not funded)

2007 “Expressive Computing: Narrative, Space, and Game” for Integrative Graduate Education and Research Traineeship (IGERT) Program, PIs: Janet H. Murray (Digital Media), Ellen Yi-Luen Do, Irfan Essa, Ashwin Ram, Co-Pis: Michael Nitsche, Ali Mazalek, Celia Pearce (not selected)

“IGERT: Integrating Science/Engineering and Pediatrics In Research and Education (IGERT:INSPIRE)” PI: Julie Jacko, Co-Pis: Gregory Abowd, D Suzanne Butcher, Paula J Edwards, Gerri Lamb, Ellen Yi-Luen Do, Dennis Hess, Charlie Kemp, Eva Lee, Ling Liu, Elizabeth D Mynatt, Ashwin Ram, Francois Sainfort, Eric Schumacher, John Stasko, Ajit Yoganathan, Craig Zimring [Submitted to NSF 07-540, not funded]

2005 “Moments of Discovery” an innovative approach to general education at research universities, submitted to NEH [not funded], PI: Wendy Katkin (Reinvention Center, State University of New York – Stony Brook)

“Collaborative Learning in Design: the Teamroom Backpack”, submitted to NSF IIS (\$599,981, not funded). PI: Dan Siewiorek, Co-PI: Susan Finger, Ellen-Yi-Luen Do, Mark D Gross, Pamela Jennings

2003 “Evaluating the effectiveness of visualization tools and science training on general cognitive abilities - A cross-disciplinary, multi-campus comparison,” a proposal submitted to GRC, Gordon Research Conference and National Science Foundation Mini-Grant for Collaboration for Research and Development in Molecular Visualization, [\$ 5,000, not funded], PI: Ellen Yi-Luen Do, Co-Pis: Mike Stieff (Northwestern University) and Mark Walter (Oakton Community College).

“World Wide Studio – Web-based Cross-Cultural Design Collaboration,” a proposal submitted to NCIIA, National Collegiate Inventors and Innovators Alliance [\$ 4,8800, not funded], PI: Jeffrey Hou, Co-PI: Ellen Yi-Luen Do

2002 “Managing Critical Services: XML inventory management with a 3D diagrammatic interface”, a proposal submitted to National Science Foundation CMMI [\$ 99,663, not funded) Exploratory Research on Engineering the Service Sector (ESS) NSF 02-029, PI: Ellen Yi-Luen Do

“Computer based scoring for neuropsychological copying and drawing tests – feasibility study”, a proposal submitted to NSF Collaborative Research in Computational Neuroscience CRCNS [\$76,966, not funded), PI: Mark D Gross, Co-PI: Ellen Yi-Luen Do

“Learning Math and Science through Physical Computing”, a proposal submitted to NSF Division of Information & Intelligent Systems, Information Technology Research ITR [\$ 344,775, not funded), PI: Mark D Gross, Co-PI: Ellen Yi-Luen Do

“XML Project Management Site Engine” a Graduate Student Research Grant Proposal submitted (for graduate student Michael Philetus Weller) to AGC (Association of General Contractors) of Washington's Education Foundation. [\$ 6,340, not funded]

2001 “Digital Sandbox: integration of design and analysis in digital earth-forming”, a proposal submitted to the RRF (Royalty Research Fund), University of Washington. (\$ 39,766, not funded)

"A Tool Kit for Documenting Places", a proposal submitted to NWACC (Northwest Academic Computing Consortium), (\$ 50,000, not funded), collaborate with PI: Nancy Yen-wen Cheng (U of Oregon) and Mark D. Gross (UW) and Ron Kellett (U of Oregon)

2000 "Psycho-Sketch: Computer based application and assessment of neuropsychological drawing tests" a proposal submitted to University Royalty Research Fund (RRF), March (\$ 24,339, not funded). PI: Ellen Yi-Luen Do

NON-REFEREED PUBLICATIONS, TECHNICAL REPORTS AND VIDEO DEMONSTRATIONS

- 2014 "Creative design computing for happy healthy living," Ellen Yi-Luen Do, in HAI'14, second international conference on Human-agent interaction, Keynote, ACM Press: 7-8, <http://dl.acm.org/citation.cfm?id=2658947> or doi>[10.1145/2658861.2658947](http://dx.doi.org/10.1145/2658861.2658947)
- "Sketch It, Make It: Freehand Drawing for Precise Rapid Fabrication," Gabe Johnson, Ellen Yi-Luen Do, Mark D. Gross, Jason I. Hong, CMU-HCII-14-103, http://cmuchimps.org/uploads/publication/paper/150/sketch_it_make_it_freehand_drawing_for_precise_rapid_fabrication.pdf
- 2013 "Preface: Special Issue on Intelligent Interactive Technologies and Multimedia" Anupam Agrawal, R. C. Tripathi, Ellen Yi-Luen Do, M. D. Tiwar: Int. J. Image Graphics 13(2) (2013) 4 pages <http://www.worldscientific.com/toc/ijig/13/02> or DOI: [10.1142/S0219467813020014](https://doi.org/10.1142/S0219467813020014)
- Magic Keyer— A mobile augmented reality application by using Chroma keying, Yuan Wang, Linh Chi Nguyen, Do Yi Luen Ellen, Demo at ISMAR, International Symposium on Mixed and Augmented Reality, Oct 1-4, 2013, Adelaide, Australia, <http://ismar.vgtc.org/ismar/2013/info/exhibition/2013-ismar-demonstrations>
- 2012 A letter to a friend: Artificial intelligence and intelligent artifacts. *AI EDAM* 26(1): 9 (2012)
- 2011 Poster presentation, Hyungsin Kim & Ellen Yi-Luen Do. Automatic Clock Drawing Test for Cognitive Impairment Screening" as a Poster presentation at the 2011 Public Health Informatics Conference, August 12, 2011, Atlanta, Georgia, USA
- Invited presentation, Hyungsin Kim & Ellen Yi-Luen Do. ClockReader: Investigating Sketch-Based Cognitive Screening System to Detect the Early Stages of Dementia. The UKC 2011 (US-Korea Conference on Science, Technology, and Entrepreneurship)'s Podium Presentation in Technical Group of Computer Science, August 10, 2011, Park City, Utah, USA
- 2009 "Graceful Aging and Happy Healthy Living in the Aware Home," keynote paper for the 4th. International Symposium on Construction Technology Information "Aging Society and Ambient Intelligence" <http://www.npo-i2cti.jp/koshukai7.html>, July 21, 2009, Tokyo, Japan, hosted by International Institute for Construction Technology Information, pp. 5-18 <http://www.npo-i2cti.jp/>
- "Unlocking Human Potential through Technological Innovation," position statement for keynote speech in 2009 National Science Council "Intelligent, Quality, Good Life" conference proceedings, Jan 20, at National Taiwan University, Taiwan, pp. 011-020, Taipei, Taiwan
- "Back to the real world: Tangible interaction for design," Ellen Yi-Luen Do and Mark D Gross, in *Artificial Intelligence for Engineering Design, Analysis and Manufacturing* (2009), 23, 221–223. Cambridge University Press 0890-0604/09 <http://doi:10.1017/S0890060409000195>
- 2007 Sustainability Poster Session Showcase before Al Gore's Lecture on Wednesday, April 18th, 2007, Ferst Center, Georgia Tech
- 2006 "Things that Think, Spaces that Sense and Places that Play," position statement for Keynote speech at the Smart Living Space Symposium, June 1-2 at International Conference Center at NCKU - National Cheng-Kung University, Tainan, Taiwan, <http://credit.csie.ncku.edu.tw/2006/>, organized by the Center for Research of E-life Digital Technology, with support from the National Science Council in Taiwan

- "Things that Think, Spaces that Sense and Places that Play," HCI Seminar, talk abstract, hosted by Department of Computer Science and Information Engineering, National Taiwan University, Taipei, Taiwan, <http://www.csie.ntu.edu.tw/>, <http://www.csie.ntu.edu.tw/announce/news/94B/20060607.pdf>
- 2004 "Between Worlds: Visions and View for the Future of CAD," Mark D Gross, Ellen Yi-Luen Do, Opening Session for G-CAD Symposium, July 14, Carnegie Mellon University
- 2003 "SPOT" video demonstration, Sebastien Bund, Ellen Yi-Luen Do and Mark D. Gross
- "A Culture of Possibilities – Design Machine Group," Ellen Yi-Luen Do, in CAAD Talks 3, Digital Design Education, Mao-Lin Chiu (ed.), pp. 128-137, Garden City Publishers, Taipei, ISBN 986770520-3
- "The Prospects of Design Computing," Ellen Yi-Luen Do, in CAAD Talks 2, Dimensions of Design Computation, Mao-Lin Chiu (ed.), pp. 140-155, Garden City Publishers, Taipei, ISBN 986-7705-00-9
- 2002 "Space Maker" video demonstration, Ming-Chun Lee, Ellen Yi-Luen Do and Mark D. Gross
- "Navigational Blocks" video demonstration, Ken Camarata, Mark D. Gross and Ellen Yi-Luen Do
- 2001 "Digital Sandbox", video production, Robert M Harris and Ellen Yi-Luen Do
- "SpacePen", videotape demonstration, Thomas Jung, Mark D. Gross and Ellen Yi-Luen Do
- Final report to National Science Foundation, Back of an Envelope Project, Grant # IIS-96-19856 and IIS-00-96138. (as senior personnel, PI: Mark D Gross)
- 2000 "Architectural Augmented Reality", position statement, with Mark D. Gross, for DARE (Designing Augmented Reality Environments)
- 1999 "Immersive Redlining", Video production, Thomas Jung, Mark D. Gross and Ellen Yi-Luen Do
- "The Electronic Cocktail Napkin", demonstration video, Mark D Gross and Ellen Yi-Luen Do
- "Collaborative Design with NetDraw", video production, with Mark D. Gross, Dongqiu Qian
- "Digital Clay", demonstration video, Mark D. Gross and Ellen Yi-Luen Do
- "The Pyramids of Knowledge", Library of Information Age, CD-ROM, Thomas Jung, Mark D. Gross and Ellen Yi-Luen Do. (ACADIA Competition, Honorable Mention)
- "Freehand Drawing as an Interface to Knowledge Based Design", at NSF [Human-Computer Interface Grantees Workshop '99](#). K. Stanney and G. Strong (eds). Orlando, FL, Feb 21-23, pp.162-163, Mark D. Gross and Ellen Yi-Luen Do
- 1998 "The Sundance Lab -- Design Systems of the Future" In [ACADIA Quarterly](#), Volume 17 #4 a quarterly publication of the Association for Computer-Aided Design in Architecture, Ellen Yi-Luen Do and Mark D. Gross
- "Interactive Systems for Supporting the Emergence of Concepts and Ideas" In [SIGCHI bulletin](#), a quarterly publication (<http://www.acm.org/sigchi/bulletin>) of the ACM Special Interest Group on Computer-Human Interaction, Vol. 30, #1, January 1998, Ernest Edmonds, Thomas Moran and Ellen Yi-Luen Do
- "The Right Tool at the Right Time: Investigation of Freehand Drawing as an Interface to Knowledge Based Design Tools" Ph.D. dissertation, Georgia Institute of Technology
- "The Right Tool at the Right Time", Tech Report, GIT-COGSCI-98/03 Cognitive Science Program, Georgia Institute of Technology
- 1997 "Emergence in Sketching" In [CHI 97, Conference on Human Factors in Computing Systems](#), Interactive Systems for Supporting The Emergence of Concepts and Ideas, Workshop preprints, Atlanta, GA. Ellen Yi-Luen Do and Mark D. Gross.

- 1996 "Drawing as an Interface to Knowledge Based Design", Mark D. Gross, Ellen Yi-Luen Do, Adrienne Warmack, Jen Lewin, and Kyle Kuczun, final report of a Colorado Advanced Software Institute Undergraduate Research Grant.
- "Ambiguous Intentions: Contextual Recognition", video demonstration, Mark D Gross and Ellen Yi-Luen Do
- 1994 "Usability Study of A Case-based Design Aid Archie," Georgia Institute of Technology, Technical report. Ellen Yi-Luen Do, Siu-Wing Daniel Or, David M. Carson, Chang-shin Chang, and Wesley C. Hacker.
- "To access an architectural case library from sketching." Ellen Yi-Luen Do, in The 1994 Cognitive Science Graduate Student Conference (CSGSC-94), Atlanta.
- 1993 "To share a dream - exploring design through multi-dimensional dynamic process." Ellen Yi-Luen Do, in W. Bullock and G. Lewis (eds.) Design Research Collaboration: Interdisciplinary Approach to Design Education, America's Industrial Design Educators Publication, IDSA (Industrial Designers Society of America), Atlanta.
- 1991 "Notes on Contemporary and Old Anping" in ARCH -- New Taiwan Architectural Journal, Taipei, Taiwan, R. O. C., 5/1991, (in Chinese)
- 1990 A Tourism Resources Survey and Integrated Development of Kingmen, Tourism Bureau Publication, Tourism Bureau, Ministry of Communications, R. O. C., project-manager, editor-in-chief, co-authored with Fu-Kuo Mi, et. al. (in Chinese)
- A Study on the Relationship between Population Characteristics & Land Use in Densely Populated Areas National Taiwan University Graduate Institute of Building and Planning publication, Taipei, Taiwan R. O. C, editor-in-chief, co-authored with Liang-Chuan Chen, et. al. (in Chinese)
- The Evaluation of Urban Seismic Disaster Factors, Ministry of Internal Affairs Project, R. O. C., National Taiwan University Graduate Institute of Building and Planning publication, Taipei, Taiwan R. O. C, editor-in-chief, co-authored with Liang-Chuan Chen, et. al. (in Chinese)
- 1989 Chinese translation of Appendixes of Good City Form by Kevin Lynch, Taiwan University publication, Taipei, Taiwan, R. O. C.: National Taiwan University. (in Chinese)
- Chinese translation of Chapter 2 of The City and the Sign : an introduction to urban semiotics edited by M. Gottdiener and Alexandros Ph. Lagopoulos., Taiwan University publication, Taipei, Taiwan, R. O. C.: National Taiwan University.
- 1988 Editor-in-chief, N. C. K. U. Architecture Journal, no. 23, Tainan, Taiwan R. O. C. (in Chinese)
- "Design Education" in N. C. K. U. Architecture Journal, no. 23 Tainan, Taiwan R. O. C. (in Chinese)
- "Campus Planning of National Taiwan University" in N. C. K. U. Architecture Journal, no. 23 Tainan, Taiwan, R. O. C. (in Chinese)
- 1987 "The Glass Menagerie" in N. C. K. U. Monthly, 2/1987, Tainan, Taiwan, R. O. C. (in Chinese)
- "Construction Techniques of Confucius Temple in Tainan City," Taiwan University publication, Taipei, Taiwan R. O. C. National Taiwan University Institute of Architecture and Urban Studies, 8/1987. (in Chinese)
- 1986 Architecture in Anping, SCALE Studio publication, Tainan, Taiwan, R. O. C., Studio of Chinese/Contemporary Architecture, Landscape, and Environment, 8/1986, co-authored with Chao-Ching Fu, et. al. (in Chinese)
- 1985 "How to build a Temple" in N. C. K. U. Monthly, 5/1985, National Cheng Kung University, Taiwan, R. O. C. (in Chinese)

INVITED PRESENTATIONS, PANEL, CONFERENCE PROGRAM CHAIR

- 2015 Program Chair for ACM Creativity and Cognition Conference 2015, to be held in Glasgow, June 22-25, 2015, <http://cc15.cityofglasgowcollege.ac.uk/>

Conference Co-Chair for the 6th Augmented Human International Conference, to be held in Singapore, March 9-11, <http://www.augmented-human.com/>

Associate Chair for ACM CHI Design Subcommittee, Human Factors in Computing, to be held in Seoul, Korea, April 18 - 23, 2015, <http://chi2015.acm.org/>

2014

Conference Chair for Chinese CHI 2014, International Symposium of Chinese CHI, April 26-27, Toronto, Canada, <http://chchi2014.icachi.org/zh/page/committee>

Panelist in the MMSP panel on Wearable Multimedia Computing. 2014 IEEE International Workshop on Multimedia Signal Processing, in Jakarta, Indonesia, Sep 22 - 24, 2014, <http://mmsp2014.ilearning.me/>

Keynote speech at Design Semantics. From Electronic Cocktail Napkin to Computing Happy Healthy Life. International Association for Ontology and Its Applications (IAOA). Special Interest Group Workshop, June 30 - July 2nd, Bari, Italy. <http://www.designsemantics.org>
<http://cindy.informatik.uni-bremen.de/cosy/design-semantics/SIG-2014/keynotes/index.html>

Keynote speech at the main conference of The 11th International Joint Conference on Computer Science and Software Engineering. Creating Unique Technology for Everyone with Computing Experience Media. Human Factors in Computer Science & Software Engineering, 14-16 May 2014 Pattaya, Thailand. Host: Faculty of Science at Si Racha, Kasetsart University Si Racha Campus, Thailand.
<http://www.jcsse2014.com/index.php/keynote-speaker>.

Invited Talk: Creative Design Computing, Department of Computer Education, doctoral research seminar, King Mongkut Institute of Technology, North Bangkok, Thailand.

Invited Talk: Being CUTE – Creating Unique Technology for Everyone. International Symposium on Design Visions 2014 (ISDV2014). 16 Mar 2014. <http://www.design.kyoto-u.ac.jp/isdv2014/>

Panelist in the (2/28) KMD Forum "Creating Unique Technology for Everyone". <http://forum.kmd.keio.ac.jp>, http://forum.kmd.keio.ac.jp/img/pdf/4th-kmd-forum_Release.pdf

Panelist in the (2/27) Interaction 2014 conference held at Miraikan (Japanese Museum for Future Science and technology) on (Panel Discussion: Future of Communicating Research Outcomes on Interactive technologies). <http://www.interaction-ipsj.org/2014/event.html>

2013

Invited Talk: Things that Think, Spaces that Sense and Places that Play, at Taipei Tech (National Taipei University of Technology), hosted by Department of Interaction Design, and Graduate Institute of Interactive Media Design <http://www.imd.ntut.edu.tw/> Dec 12, 2013. Tangible Interaction workshop Dec 9-18.

Keynote Speech, Design Computing for Things that Think, Spaces that Sense and Places that Play, at ICOMS 2013, International Conference on Modeling & Simulation, hosted by Air University, Islamabad, Pakistan, Nov 25-27. Ellen was given a plaque by Pakistan's Minister of Education Mr. Muhammad Baligh ur Rehman, <http://portals.au.edu.pk/icoms-2013/keynotespeakerandinvitedtalks.php>

Panel Discussion: Prof. Ellen Yi-Luen Do. Future of Communicating Research Outcomes on Interactive Technologies. SIGGRAPH Asia 2013 Hong Kong. 22 Nov 2013.
<http://sa2013.siggraph.org/en/attendees/emerging-technologies.html?view=session&type=etech&sessionid=202>

Keynote - Second International Conference on Intelligent Interactive Technologies and Multimedia (IITM 2013) <http://iitm.iiita.ac.in/index.html> (March 9-11, 2013), Allahabad, India

Conference Chair for IITM 2013 - second international conference on intelligent interactive technologies and multi-media, March 9-11, 2013, Allahabad, India <http://iitm.iiita.ac.in/>

Design Community Chair for ACM SIGCHI Conference on Human Factors in Computing Systems CHI 2013 - <http://chi2013.acm.org/communities/design/> (April 27 - May 2, 2013), Paris, France

2012

Program co-chair for ACM C&C 2012, International Conference on Creativity and Cognition, June 17-20, 2013, Sydney, Australia, <http://cc13.creativityandcognition.com/>

Design Community Chair for ACM SIGCHI Conference on Human Factors in Computing Systems CHI 2012 (May 5-10, 2012), Austin, Texas, <http://chi2012.acm.org/com-design.shtml>

Invited talk, July 18, 2012, at Georgia Tech, Toward a Smart Living Environment, to a NSF funded ICE (Institute for Computing Education) Teacher Workshop, <http://coweb.cc.gatech.edu/ice-gt/1878>

Invited talk, July 10, 2012, at Georgia Tech, as part of the talk Things that Think, Spaces that Sense and Places that Play, for High School EarSketch summer camp - <http://coweb.cc.gatech.edu/ice-gt/1889>

2011

Conference Chair for SBIM 2011 – Sketch Based Interactions and Modeling Symposium, Eurographics and ACM sponsored, to be held pre-SIGGRAPH, and jointly with NPAR – Symposium on None Photorealistic Animation and Rendering and CAE – International Symposium on Computational Aesthetics in Graphics, Visualization, and Imaging, to be held in Aug 5-7, 2011, in Vancouver, BC, Canada, <http://www.cl.cam.ac.uk/conference/cae-sbim-npar-2011/SBIM/Home>

Chair for Graduate Student Consortium for 8th ACM Conference on Creativity and Cognition, to be held Nov 3-6, 2011, Atlanta, Georgia Tech <http://dilab.gatech.edu/cc/index.html>

Program co-chair for ACM TEI 2011 -- Tangible, Embedded and Embodied Interaction conference held in Madeira, Portugal, Jan 26-28, 2011 <http://tei-conf.org/11/>, TEI 2010 is hosted by MIT Media Lab, Jan 25-27, 2010 <http://tei-conf.org/10/>

Invited talk, Hyungsin Kim and Ellen Yi-Luen Do, The ClockMe System: Technological Opportunities for Memory Screening. Emory Alzheimer's Disease Research Centers (ADRC) first annual Fall Scientific Retreat, November 5, 2011, Atlanta, Georgia, USA

2010

Keynote Speaker – Things that Think, Spaces that Sense and Places that Play, at IITM 2010, First International Conference on Intelligent Interactive Technologies and Multimedia, Dec 28, 2010 Allahabad, India, <http://iitm.iitit.ac.in/>
<http://portal.acm.org/citation.cfm?id=1963564&coll=DL&dl=ACM&CFID=14414315&CFTOKEN=25091911>

Invited talk, Things that Think, Spaces that Sense and Places that Play, lecture given at the Faculty of Architecture, Design and Planning, at Nov 30, University of Sydney

Keynote Speaker, Things that Think, Spaces that Sense and Places that Play, at the Symbiotic, Safe and Secure System Design – International Symposium on Biofied Buildings, Nov 26, at Keio University, host: Prof. Akira Mita, http://www.gcoe-s4design.keio.ac.jp/event/2010/kenchiku_prog.pdf

Demo co-chair for DIS – Designing Interactive Systems 2010 (DIS 10) held in Arhus, Denmark, <http://www.dis2010.org/> & <http://www.dis2010.org/index.php?Organisers+%2Fchairs>

Invited Speaker and Workshop leader – Thinking with Diagrams Charrette – Analog-Digital (2D – 3D – 2D), the Spatial Manipulation Workshop, at Southern Polytechnic State University, Friday, Sep 17, 2010.

Program Chair for SBIM 2010 – Sketch Based Interactions and Modeling Symposium, Eurographics and ACM co-sponsored, held jointly with NPAR – Symposium on None Photorealistic Animation and Rendering, June 7-10, Annecy, France, <http://graphics.cs.williams.edu/sbim-npar10/>

Keynote Speaker, “Come Dress with me - light, color, and magic show,” at Tainan University of Technology, Fashion and Creative Design Symposium, International Masters series, May 26, 2010. Hosted by College of Living Technology, and College of Design. Dept. of Styling and Cosmetology, Director Jung-Jy Lin, and Dept. of Product Design chair, Ivan Ting.

Invited Talk, “Design Better Future?” First International Creative Design Symposium, at Shu-Te University, 5/27, 2010, College of Design, Department of Digital Technology and Game Design, hosted by Chair Chun-Wei Chen, and Tin-Kai Ken Chen, <http://www.stu.edu.tw/news/22953.html>

Keynote Speaker, “From Electronic Cocktail Napkin to Creative Tangible Interaction,” at Shu-Te University, International Conference of Post-Design Development, Knowledge Innovation and Creativity Integration, May 28, 2010, hosted by University President Dr. Ining Y. H. Chu, Yuan-Hua Lu, and College of Design Dean Ing-Huey Wong, organized by College of Design <http://www.pad.stu.edu.tw/2010postdesign/>

<http://news.sina.com.tw/article/20100529/3200149.html>

2009

Keynote speaker "Toward a Smart Living Environment", lead a workshop on "Ambient Intelligence, Physical Computing and Fun" and a panel "Creating Environments that Make People Smarter" in Tainan, Taiwan for the "Being Smart, Going Green" Living Labs workshop, sponsored by National Science Council, Taiwan <http://sites.google.com/site/livinglabsworkshops09/keynotes> (Nov 11-14, 09) <http://research.ncku.edu.tw/re/news/e/20091016/1.html>

Keynote speaker, "Unlocking Human Potential through Technological Innovation" at 2009 National Science Council sponsored "Intelligent, Quality, Good Life" conference, Jan 20, at National Taiwan University, Taiwan, hosted by National Taiwan University's INSIGHT Center (Center of INnovation and Synergy for IntelliGent Home Technology), Taipei, Taiwan <http://insight.ntu.edu.tw/CONFERENCE/speech.html>

Keynote speaker, "Graceful Aging and Happy Healthy Living at the Aware Home" at the 4th. International Symposium on Construction Technology Information- Aging Society and Ambient Intelligence", July 21, Tokyo, Japan, hosted by I2CTI – International Institute of Construction Technology Information, <http://www.npo-i2cti.jp/>, <http://www.npo-i2cti.jp/koshukai5.html>

Program chair for SBIM - NPAR - Sketch-Based Interfaces and Modeling Workshop and Symposium on NonPhotorealistic Animation and Rendering, in Annecy, France, June 2010 <http://graphics.cs.williams.edu/sbim-npar10/committee.html>

Invited talk, "Things that Think, Spaces that Sense and Places that Play" at Computer Science Colloquium, University of Massachusetts Lowell, April 8, 2009, hosted by Fred Martin http://www.uml.edu/Media/calendar/cs_collo.html

Invited talk, "Things that Think, Spaces that Sense and Places that Play – Creative Design Computing for Happy Healthy Living," Computer Science Seminar, Wellesley College, April 9, 2009, hosted by Orit Shaer, https://frannie.wellesley.edu/clce/CLCE_Abstracts.jsp

2008

Invited talk, "Things that Think, Spaces that Sense and Places that Play" at Environmental Design & Planning PhD Program's Doctoral Seminar at Clemson University on October 17, 2008

Invited talk, "Towards a Smart Healing Environment" in Sketching in Hardware 07 - A summit on the design and use of physical computing toolkits, July 25-27, 2008, Rhode Island School Of Design, Providence, Rhode Island <http://www.sketching08.com/> hosted by Mike Kuniavsky, Thing M.

2007

Invited talk at HCI Seminar, "Design Computing and Intuitive Interfaces" at University of Illinois at Urbana Champaign, Department of Computer Science, October 4, Thursday, 11:00, 3401 Siebal Center, hosted by Brian Bailey, ORCHID (Research in Computer Human Interaction Design), <http://orchid.cs.uiuc.edu/>, <http://webtools.uiuc.edu/calendar/Calendar?callId=1436>

Keynote Speaker, "Every Drawing Tells a Story," for "Spatial Cognition in Architectural Design Workshop - Anticipating User Behavior, Layout Legibility, and Route Instructions in the Planning Process," in conjunction with the International Conference on Spatial Information Theory (COSIT'07), Melbourne, Australia, September 19, 2007, hosted by Thomas Barkowsky (University of Bremen, Germany), Zafer Bilda (Australasian CRC for Interaction Design (ACID), Creativity and Design Studios, UTS, Australia), Christoph Hölscher (University of Freiburg, Germany) and Georg Vrachliotis (ETH Zurich, Switzerland), <http://www.sfbtr8.spatial-cognition.de/SCAD/>

Invited talk, "Creative Design Computing" at University of Oregon, Eugene, August 24, Friday, 2007, hosted by Nancy Yen-Wen Cheng.

Invited talk, "Higher-level toolkits and design compilers" in Sketching in Hardware 07 - A summit on the design of/with physical computing toolkits, June 23-24, 2007, Mechanics' Institute Library, San Francisco <http://www.sketching07.com/> hosted by Mike Kuniavsky, Thing M.

Keynote Speaker, "Patient Room of the Future" at the 2007 Symposium on Digital Life Technologies: Building a Safe, Secured and Sound (3S) Living Environment, June 7-8, at National Cheng-Kung University, Tainan, Taiwan, <http://credit.csie.ncku.edu.tw/2007/>

Invited Speaker, "Visual Thinking and Spatial Reasoning" for the School of Interactive Arts and Technology, Simon Fraser University, hosted by Janet McCracken, May 23, Surrey, British Columbia, Canada

Invited Speaker, "Understanding Geometry and Semantics for Sketching" for the Invited Workshop on pen-centric Computing, hosted by Andy van Dam, March 26, Brown University. Microsoft Center for Research on Pen-Centric Computing, <http://pen.cs.brown.edu/news.html>

2006

Speaker, "Ambient Intelligence for Home Energy Use", Strategic Energy Institute, Creating Energy Options Grantees Meeting, November 21, hosted by Sam Shelton, Charlie Liotta.

Invited Speaker, Cognitive Science Colloquium, Georgia Tech, September 22, Friday, "Design Thinking and Sketch Understanding," hosted by Nancy Nersessian, and Ellie Harmon, Tech Square Research Building 223

Workshop Session Co-Chair, for "Let's Get Physical: tangible Interaction and Rapid Prototyping in, for, and about Design" for Second International Conference on Design Computing and Cognition, held in Technical University of Eindhoven, Netherlands, 8-9 July, <http://www.arch.usyd.edu.au/kcdc/conferences/dcc06/>

Keynote Speaker - "Things that Think, Spaces that Sense and Places that Play" at the Smart Living Space Symposium, June 1-2 at International Conference Center at NCKU - National Cheng-Kung University, Tainan, Taiwan, organized by the Center for Research of E-life Digital Technology, with support from the National Science Council in Taiwan <http://credit.csie.ncku.edu.tw/2006/>

Invited Speaker, June 5 Monday at Interior Design & Visual Communications, at TUT - Tainan University of Technology, Yung Kang, Taiwan, hosted by Chieh-Jen Lin, <http://www.tut.edu.tw/webmaster/Nenglish/english.htm>

Invited Speaker, June 6 Tuesday at Graduate School of Computational Design, NYUST - National Yunlin University of Science and Technology, Yulin, Taiwan, hosted by Teng-Wen Chang and Ji-Huyn Lee, <http://www.cd.yuntech.edu.tw/>

Invited Speaker, June 7 Wed, at CSIE - Department of Computer Science and Information Engineering, NTU - National Taiwan University, Taipei, Taiwan, hosted by Hao-Hua Chu, <http://www.csie.ntu.edu.tw/seminar.html>, and Ubicomp Lab, <http://mll.csie.ntu.edu.tw/>

Invited Speaker, June 8 Thursday at NTUST - National Taiwan University of Science and Technology, Taipei, Taiwan, hosted by Shen-Fen Nik Chien, <http://www.ad.ntust.edu.tw/grad/caad/>

Invited Speaker, "Exploring Physical Computing" at Atlanta Dorkbot meeting, hosted by Jason Freeman, March 9, Atlanta, Georgia <http://dorkbot.org/dorkbotatl/03092006/>

2005

Session Chair, "Session IV – Digital Life and Human Technology of the Future", Annual Convention, Chinese Institute of Engineers – USA, Greater New York Chapter <http://www.cie-gnyc.org> October 15, Newark Airport Marriott Hotel

Invited Speaker, "Home in the Digital Age" for Annual Convention, Chinese Institute of Engineers – USA, Greater New York Chapter <http://www.cie-gnyc.org> October 15, Newark Airport Marriott Hotel, Panel included Jackie Chia-Hsun Lee, Hao-Hsiu Chiu, and Jason I Hong.

Contributor, "House of the Future" for SciTech Spectacular, September 30 – October 9, exhibit at Carnegie Science Center, sponsored by the SciTech Festival <http://www.scitechfestival.org>

Invited Speaker, "Physical Computing and Home of the Future," SURG Seminar (Small Undergraduate Research Grant), September 23, Dowd, University Center, Carnegie Mellon University, hosted by Janet Stocks and Lisa Everett, Undergraduate Research Office

Session Leader, "Engineering the House of the Future: Home 2020," EYF (Engineering Your Future), A career guidance workshop for City of Pittsburgh Public School girls, Sponsored by the Society of Women Engineers, July 18-22, <http://swetietoc.pc.cc.cmu.edu/swe/eyf.php>

Invited Speaker, "Design and Human-Computer Interaction" RCAST (Research Center for Advanced Science and Technology, University of Tokyo, May 10, Komaba campus, Tokyo, Japan. Hosted by Professor Kumiyo Nakakoji, KID (Knowledge Interaction Design) Lab. <http://www.kid.rcast.u-tokyo.ac.jp/index.html>

Carnival Booth Chair, "Home 2020" April 14-16, Spring Carnival, Carnegie Mellon University

Invited Speaker, "Inventing Computational Design: Interface, Reasoning, and Environments," for the Ph.D. Program, College of Architecture, Georgia Institute of Technology, hosted by Chuck Eastman, March 11, Atlanta, Georgia. <http://www.coa.gatech.edu/phd/>

Invited Speaker, "Toward Intuitive Design Interfaces," for HCII, Human Computer Interaction Institute, February 16, hosted by Brad Myers, Professor, HCII, School of Computer Science, Carnegie Mellon University. <http://www.hcii.cmu.edu/index.html>

Invited Speaker, "Reinventing Froebel's Gifts, a design brainstorming workshop," for AIAS, American Institute of Architectural Students, February 16, hosted by Deniz T. Secilmis, AIAS president, Carnegie Mellon University. <http://www.andrew.cmu.edu/user/aias/>.

2004

Invited Speaker, "Design and Human-Computer Interaction," for School of Information Sciences (SIS), December 6, University of Pittsburgh, hosted by Stephen Hirtle, Professor, Department of Information Science and Telecommunications <http://www.sis.pitt.edu/>

Invited Speaker, and session Leader, "Integrating Research into Undergraduate Education" National Reinvention Center Conference, Nov 18-19, Washington, D.C. sponsored by the National Science Foundation and the Woodrow Wilson National Fellowship Foundation. <http://www.sunysb.edu/Reinventioncenter/>

Invited Speaker, "The Making of Design Machines," for the School of Interactive Arts and Technology, Simon Fraser University, hosted by Janet McCracken, Robert Woodbury, March 19, Surrey, British Columbia, Canada

Invited Speaker, "Intuitive Digital Design," for Research Exposed, Undergraduate Research Seminar, Undergraduate Research Program and the Odegaard Undergraduate Library, GEN ST 391, January 7, Odegaard Auditorium OUGL 220, hosted by Janice DeCosmo, Assistant Dean, Undergraduate Education, University of Washington. <http://www.washington.edu/research/urp/exposed/2004winter.html>

2003

Keynote Speaker, "Architecture and beyond," for the "Major Madness" sponsored by Panhellenic Association, November 25, hosted by VP Scholarship, Allison Schultz, Alpha Gamma Delta

Invited Speaker, "Visual Thinking and Spatial Reasoning," for the Math Brownbag, November 25, Padelford C-120, hosted by Ginger Warfield, Mathematics Department, University of Washington

Invited Speaker, "Design Computing Research at the Design Machine Group," for Doctoral Seminar, October 30, BE 550, Ph.D. Program in the Build Environment, hosted by Eddy Rojas, University of Washington.

Invited Faculty Mentor, for "First Connections," Fall Orientation seminars, September 26, three sessions, sponsored by First Year Programs, Office of Undergraduate Education, University of Washington

Invited Speaker, "Intuitive Digital Design: sketch, gesture and physical computing," for Graduate School of Computational Design, National Yunlin University of Science and Technology, Yunlin, Taiwan, December 24, evening lecture series hosted by Ji-Hyun Lee and Quen-Tai Gao.

Invited Speaker, "Physical Computing" lecture, panelist on "future computing research and education," and programming workshop on sketching Department of Architecture, National Cheng-Kung University, Tainan, Taiwan, December 23, 24, hosted by Taysheng Jeng, and Maolin Chiu.

Invited Speaker, "Research Projects at the Design Machine Group," also participant in panel discussion and programming workshop on generative shapes, National Taiwan University of Science and Technology, Taipei, Taiwan, December 22, hosted by Sheng-Fen Nik Chien

Invited Speaker, for SURP, Summer Undergraduate Research Program, Washington Space Grant Consortium, ESS 490 Seminar, June 26, Physics and Astronomy Auditorium A110, University of Washington

Presentation, "Instant 3D Worlds with Freehand Drawing," for Gordon Research Conference, Visualization in Science and Education, <http://www.grc.org/programs/2003/visualiz.htm> July 20-25, Queen's College, Oxford University.

Invited Lead for Campus Conversation, "Seeing Things as if They Could be Otherwise: a Series of Conversations about the Imagination," Co-sponsored by Lincoln Center for the Performing Arts, the offices of Undergraduate Education and Educational Partnerships and Learning Technologies, University of Washington, January 14, Mary Gates Hall 206, Honors Lounge.

Invited Speaker, for N.A.K.E.D Lunch Series (New Adventures in Knowledge, Expression, and Discovery), "Intuitive Digital Design" February 5, OUGL 220, sponsored by The University of Washington Undergraduate Research Program and the Odegaard Undergraduate Library

Invited Speaker, Honors Brown Bag, "Visual Thinking, Spatial reasoning and Creative Problem Solving," February 27, Mary Gates Hall 206, University of Washington's Honors Program

2002

Invited Speaker, Intel Research Seattle Seminar, "Intuitive Design Interfaces, sketch, gesture and physical computing," November 20, Intel Research Seattle, 1100 NE 45th St. hosted by Sunny Consolvo and Gaetano Borriello, <http://seattleweb.intel-research.net/seminars/index.html>

Invited Speaker, University of Oregon, Eugene, "Intuitive Digital Design: sketch, gesture and physical interfaces," November 4, 100 Willamette Hall, hosted by Nancy Yen-wen Cheng, School of Architecture & Allied Arts Lecture Series

Invited Speaker, Cornish College of the Arts, "Design and Computation, Design Machine Group," October 16, Cornish North Building, hosted by Cornish Exhibition and Lecture series, Adrian von Egmond.

Invited Speaker, Human-Computer Interaction Seminar, "Design Machine Group: design, HCI and physical computing", July 18, The Rainbow Room, FS07 William Gates Building, Computer Laboratory, University of Cambridge, hosted by Alan Blackwell.

Invited Speaker, "Design and Computation" at Intelligent Workplace, School of Architecture, Carnegie Mellon University, July 8, hosted by Vivian Loftness.

Invited Speaker, "Design Machine Group: research overview" at the Berkeley Institute of Design (BID) Planning retreat, June 16-18, Hosted by John Canny, Computer Science, University of California, Berkeley, Human Centered Computing consortium (HCC).

Invited Speaker, "Electronic Sketching and the Design Machine Group" for ACM SIGCHI (Special Interest Group in Computer Human Interaction) student chapter meeting, May 7, Loew Hall, University of Washington.

Invited Speaker, "Electronic Sketching and Drawing", for Six Degrees of Collaboration – Information Technologies that Facilitate Collaboration in Architectural Practice. AIA Technology in Architectural Practice (TAP) Professional Interest Areas (PIA) April 5-6, AIA National Headquarters, Washington, D.C.
<http://www.aia.org/pia/tap/conference/>

Panelist, on 'Collaboration Strategies in Architectural Education', with Nancy Yen-Wen Cheng, Mark Clayton, and Martin Fischer, April 6, in AIA Technology Conference, AIA National Headquarters, Washington, D.C.

Invited Speaker, February 22, Calligraphic Interface, for Technical Communication class TC 521, Current Issues of Technical Communication, host Judy Ramey, University of Washington. (EDGE, televised)

Invited talk, "Sketching Interface and Physical Computing", March 28, Soda Hall, Computer Science Building, UC Berkeley, host Dan Glaser.

Invited Speaker, "Design Machine Group", March 4, host Omer Akin, School of Architecture, Carnegie Mellon University.

2001

Invited presentation "Sketchy Interfaces" - SIGCHI (Special Interest Group in Computer Human Interaction), Puget Sound, local chapter, 22 Feb

Invited talk, "Current Work at Design Machine Group", July 12, Industrial Design Engineering Department, Technical University of Delft, Host: Pieter Jan Stappers, ID StudioLab, Jouke Verlinden, Integrated Concept Advancement, Faculty of Design, Engineering and Production

Session chair, for Architectural Analysis, Ninth International Conference of Computer Aided Architectural Design Futures, CAAD 2001 Futures conference, Eindhoven, Netherlands, July 11.

Presentation, "Sketching Interfaces", ACM CHI 2001 workshop on Early Stages of Design, April 1.

Invited presentation, January 11, CSE lunch colloquium, University of Washington, hosted by Hal Perkins, (Computer Science and Engineering)

2000 Invited Talk, April 4, "Sketching, Design and Collaboration", at Virtual Worlds Group, Microsoft Research, hosted by Lily Cheng and Linda Stone.

Session chair for 'Experimental Design Systems', eCAADe conference, Education in Computer Aided Architectural Design in Europe, Weimar, Germany, June.

1999 Presenter for Mark Gross, on 'Architecture in the Digital Age: Creativity, Method, and Computer Aided Design', McKinley Invited Lecture, University of Washington, Seattle, October 7.

1998 Participant, DCNet'98 (Design Computing on the Net), an international on-line conference on the future of computer aided architectural design, Nov 30-Dec 3, sponsored by The International Journal of Design Computing, University of Sydney. <http://www.arch.usyd.edu.au/kcdc/journal/vol1/dcnet/>

Presenter for FTEP, Faculty Teaching Excellence Program sponsored Sundance Lab Demo Day, March 11, 1998, University of Colorado at Boulder

1997 Presenter, Design Reasoning with Drawing with Electronic Cocktail Napkin, at HCIC (Human Computer Interaction Consortium) held in Winter Park, Colorado.

"Thinking with Diagrams in Architectural Design". In TwD 97, Thinking with Diagrams Interdisciplinary workshop on diagrammatic reasoning, Portsmouth, England (January 9 and 10), Edinburgh

Panelist, on Design and Technology, for FORUM '97, National Conference of American Institute of Architectural Students (AIAS), Hyatt Regency Denver, November 28.

1996 Invited presentation, "Right Tool at the Right Time- investigation of freehand drawing convention as an interface to knowledge based design aids", October 2, at [L3D \(Center for LifeLong Learning and Design\)](#), Computer Science, University of Colorado at Boulder. Led by Gerhard Fischer, http://www.cs.colorado.edu/~l3d/meetings/oct_2.html

Invited presentation, "Paper and pen - A tool for communities of practice", Mark D Gross, Ellen Yi-Luen Do, Kyle S. Kuczun, Adrienne Warmack, May 20, at [L3D Symposium: Computational Support for Continually Evolving Organizational Knowledge Base](#), hosted by Gerhard Fischer, Jonathan Ostwald and Gerry Stahl, <http://www.cs.colorado.edu/~ostwald/symposium/positions/sundance.html>

Invited presentation and participation, Computational Support for Continually Evolving Organizational Knowledge Bases Symposium, May 19-21, <http://www.cs.colorado.edu/~ostwald/symposium/>

1995 "The Electronic Cocktail Napkin" invited lecture, sponsored by the Woo, Chow, Wong and Partners (HK) Visiting Lectureship in Architecture, Hong Kong University, Department of Architecture, September 28, 1995.

"Intelligent Sketching Paper: Drawing Analogies through Electronic Cocktail Napkin" presented at [The 2nd International Conference on Computer-aided Design](#), Sept. 20, 1995, Taiwan, R. O. C.

Session Moderator, International Conference on Computational Models of Creative Design, Heron Island, December 1995, Australia

DESIGN REVIEWS AND WORKSHOPS

2010 Guest Speaker and Workshop leader – Thinking with Diagrams Charrette – Analog-Digital (2D – 3D – 2D), the Spatial Manipulation Workshop, at Southern Polytechnic State University, Department of Architecture, Friday, Sep 17, 2010. (host: Liz Martin)

- 2008 Guest juror, design review critic for City of Refuge clinic design studio, taught by Tim Harrison, Architecture Program, Georgia Institute of Technology
- Guest juror, design review critic for second year studio, taught by Chung-Lun Kuo, Architecture Program, Georgia Institute of Technology
- 2005 Guest juror, design review critic for first year and fourth year studio, taught by David Burns, Dee Briggs, School of Architecture, Carnegie Mellon University
- 2004 Guest juror, design review critic for second year and third year studio, taught by Stephanie Bartos, Khee Poh Lam, School of Architecture, Carnegie Mellon University
- 2003 Guest juror, design review critic for a vertical studio, a sustainable research facility, an investigation of form and methods, taught by Sheng-Fen Nik Chien, National Taiwan University of Science and Technology, Department of Architecture
- Guest juror, Physical Computing design projects, taught by Ken Camarata, Arch 498Z, Spring Quarter, Department of Architecture, University of Washington
- 2002 Guest juror, cyber critic, and “CU-see me” guest, for Virtual Design Studio joint video conferencing design review with National Cheng Kung University, taught by Mao-Lin Chiu and Taysheng Jeng, with Arch 402/504 High Phyber (physical + cyber) Studio taught by Brian Johnson, Department of Architecture, University of Washington
- Guest juror, for 3rd year B. Arch studio on a museum design at the Mall of Washington, D.C., March 5, host Omer Akin, School of Architecture, Carnegie Mellon University.
- Guest, final presentation and exhibit, for Physical Computing class, Interactive, Responsive Environment projects, Arch 498Z, taught by Ken Camarata, Winter Quarter, Department of Architecture, University of Washington
- Guest juror, for Arch 403/505 Digital Design Studio, a digital design built studio of sustainable shelter for artists in Pioneer Square “sinking ship” garage, taught by Jim Nicholls and Mark D Gross, Department of Architecture, University of Washington, June 12
- Guest, for final presentation and show, Arch 416, Freehand Drawing in the Digital Realm, taught by Anne Stevens, June 4, Department of Architecture, University of Washington
- 2001 Guest juror, for class and final presentation and art show, Arch 498Z, Physical Computing, project Memory Box, taught by Ken Camarata, Department of Architecture, University of Washington
- Design juror, for Arch 403/505 Digital Design Build, techTronics studio, a digital design studio exploring future building technology, taught by Mark D Gross, Department of Architecture, University of Washington
- Guest juror, cyber critic, for Cybrid Internet Café, a digital design studio taught by Brian Johnson, Department of Architecture, University of Washington
- Guest juror, final review, Arch Advanced Digital Drawing, taught by Anne Stevens, Arch 498, Department of Architecture, University of Washington
- 2000 Design juror, cyber critic, for University of Oregon's ARCH 424/524 - Advanced Design Development Media, taught by Nancy Cheng
- Design juror, cyber critic, for University of Southern California, Arch 402, Topics Studio, taught by Douglas Noble
- Guest juror, critic for Advanced Projects of Freehand Drawing in the Digital Realm, taught by Anne Stevens, Department of Architecture, University of Washington
- 1999 Guest juror, Freehand Drawing in the Digital Realm, taught by Anne Stevens
- 1998 Design juror, cyber critic, for Georgia Tech, Arch 8000, Topics Studio, taught by Craig Zimring

Design juror, Department of Architecture, University of Oregon, final studio round robin review

- 1995 Design Juror, cyber critic, for Harvard GSD's 2302 - Advanced Digital Media, taught by Wade Hokoda and Spiro Pollalis
- Design Juror, cyber critic, for Harvard GSD's 2107 - Fundamental of Computer Aided Design, taught by Wade Hokoda and Spiro Pollalis

DESCRIPTIONS OF MY WORK IN THE PROFESSIONAL AND POPULAR PRESS

- 2012 Mobile Music Touch featured in INFO Exame - Brazilian press, Uma luva mágica, by Cauã Taborda, August 1, 2012. <http://info.abril.com.br/noticias/extras/uma-luva-magica-31072012-58.shl>
- Mobile Music Touch featured in CNET, Musical glove could improve mobility after spinal cord injury, Cutting Edge, CNET News, July 18, 2012 http://news.cnet.com/8301-11386_3-57474375-76/musical-glove-could-improve-mobility-after-spinal-cord-injury/?tag=mncol;txt
- ClockReader project featured in May/June edition of Aging Well magazine Vol. 5 No. 3 P. 8, a national newsmagazine for geriatrics professionals, New Technology to Detect, Diagnose AD, by Juliann Schaeffer, - see viewer <http://viewer.zmags.com/publication/a9e5ba39#/a9e5ba39/9> or <http://www.agingwellmag.com/archive/050712p8.shtml>
- ClockReader & Mobile Music Touch projects featured in Research Horizons Summer/Fall 2011 issue <http://acmelab.gatech.edu/wordpress/wp-content/uploads/2011-Fall-research-horizon.pdf> Medical Device Innovation: Georgia Tech Develops Technologies to Solve Health Care Problems, by Abby Robinson, (see pp. 7, 8, 9 for ClockReader, and Mobile Music Touch on p. 15)
- 2010 Helping Hand project featured in (Dec 16, 2010) – US Scientists Lend a Helping Hand, Associate Press TV, EuroNews – Research-USA <http://www.euronews.net/2010/12/16/us-scientists-lend-a-helping-hand/>
- 2009 Helping Hand project featured in CNN Edge of Discoveries – (aired 6/24/2009) <http://www.cnn.com/SPECIALS/2008/edge.of.discovery/>
- Mobile Music Touch/Piano Touch project Featured in The Information Technology Section Of The Chronicle Of Higher Education Article: Composers And Computers Work In Harmony At Georgia Tech's Music Center, By Eric Kelderman, Jan 30, 2009 Issue. <http://chronicle.com/free/v55/i21/21a01101.htm>
- 2008 Featured in FreeCollege.com: Scholarships, grants, and university news: "Reinventing the Way People Learn to Play the Piano" <http://freecollege.com/2008/11/07/reinventing-the-way-people-learn-to-play-the-piano/>
- In the news and video of Piano Touch/Mobile Music Touch -- Reinventing the Way People Learn to Play the Piano November 7, 2008 <http://www.gatech.edu/newsroom/release.html?id=2268&ga=5>
<http://www.digitallounge.gatech.edu/entertainmentandmusic/index.html?id=2268&source=DLrss>
- 2006 "Design sketches and sketch design tools," Ellen Yi-Luen Do, in KBS - Knowledge-Based Systems, Volume 18, Issue 8, 1 December 2005, Pages 383-405, is ranked 14th on the Top 25 Hottest articles during Jan-March 2006 by Science Direct in the Subject Area: Computer Science, Journal: Knowledge-Based Systems http://top25.sciencedirect.com/index.php?cat_id=7&subject_area_id=7&journal_id=09507051
- 2002 Featured in Northwest Science & Technology, "Next Generation Tools for Architects" by Denise Fulton, Autumn 200 issue, pp. 32-37, <http://www.nwst.org>, <http://depts.washington.edu/archi/NW-ST/>
- Featured in front page of Seattle Post Intelligencer's Local News, September 11, "Picture This: Problem Solving in 3D" by Jake Ellison. http://seattlepi.nwsourc.com/local/86491_visual11.shtml
- 2001 Featured in "Digital Architecture" on Komo TV, channel 4 evening news, November 18, by Natasha Jones from Tech TV. Movie clip at <http://depts.washington.edu/redline1/komo4-02.mov>

Featured in UW Daily, "UW Design Machine Group unveils new Programs," by Ken Michelson November 8. Also on-line at <http://faculty.washington.edu/ellendo/udaily/udaily-dmg.html>

Featured in Daily Journal of Commerce, October 31. "Design Machine Group shows off new tools" by Sam Bennett. Also online <http://faculty.washington.edu/ellendo/daily.html>

Featured in University Week, October 25. "Computer more than super pencil" by Steve Goldsmith, U Week Vol. 19, #4. Also on-line at http://faculty.washington.edu/ellendo/uweek/archives/2001.10.OCT_25/

2000

"The Poetic Potentials of Computers, a class that takes up the principles of Bauhaus, Bennett Neiman and Ellen Yi-Luen Do. in *Arquitectura Digital: Architectural and Digital Design* magazine, No. 9, March. Pp 64-69, S.A.I.C. Capital Federal, Argentina <http://www.arquitecturadigital.com>

Drawing on the Back of an Envelope: a framework for interacting with application programs by freehand drawing, *Computers and Graphics*, 24 (6) (2000) pp. 835-849 Best Paper Award, *Journal in Computers and Graphics* (2000)

Featured in *Architecture Week*, On-line magazine for Architecture, June 14 issue, "The Right Tool at the Right Time" by B. J. Novitski.

On-line at http://www.ArchitectureWeek.com/2000/0614/tools_1-1.html

Featured in *Architecture Week*, Education
<http://www.architectureweek.com/topics/education.html>

Featured in *Architecture Week*, On-line Digital Library
<http://www.architectureweek.com/topics/digital.html>

Listed in *Who's Who in CAAD*, <http://www.arch.ncku.edu.tw/caad/who/list.htm>

1999

Listed in *International Graphonomics Society Bulletin* ISBN 1560-3253
http://www.socsci.kun.nl/psy/igs/BIGS13_01.PDF

Featured in "Today's Research, Tomorrow's Software," Technology Column, by B. J. Novitski, in *Architectural Record*, The Millennium Futures to Come, 12.99

"An Analog Digital Language of Vision," Bennett R. Neiman and Ellen Yi-Luen Do, in *Partnership in Learning*, Form-Z Joint Study Annual Report, pp. 62-65. Autodesk Inc. Also on
http://www.formz.com/web_site_2000/content_pages/Joint_Study/JS99/pgs_062-063.pdf
http://www.formz.com/web_site_2000/content_pages/Joint_Study/JS99/pgs_064-065.pdf

Featured in *CADENCE* magazine, "The Future of AEC Technology" by Jerry Laiserin, January issue. On-line excerpt at <http://www.cadenceweb.com/1999/0199/issuefocus0199.html>

1994

Featured in 'Research Horizons', A quarterly publication of the Georgia Institute of Technology, Educational Technology section, page 14, Winter 1994 issue, work on Archie- a case-based design aid for architecture (PI: Janet Kolodner, EduTech Institute and Institute of Cognitive Science)
<http://qtresearchnews.gatech.edu/reshor/default.html>

COURSE DEVELOPMENT

Happy Healthy Home – Ambient Intelligence and Innovation (COA 8833-ED, also CS 8803-D), 3 credits

Project based research studio, concerning topics of health aware home, social computing, quality of life issue, chronic care for the very young and the very old, ambient intelligence, ubiquitous computing, architectural robotics, etc.

Wiki site https://wiki.cc.gatech.edu/designcomp/index.php/Happy_Healthy_Home_11
Blog site - <http://happyhealthyhome11.wordpress.com>

Creativity and Design Cognition (COA-8843, and CS 8803-ED, 3 credits)

This course investigates the making of computational methods, models, tools and analysis for creativity, design and cognition. The seminar engages in readings and discussions about the nature and studies of creativity and design cognition, ranging from the literature of design thinking and methods, representations and theories on design, models and computational support for creativity, design process and collaboration.

Wiki site https://wiki.cc.gatech.edu/designcomp/index.php/Computing_Creativity_and_Design_Cognition_-11
Blog site <http://ccdc11.wordpress.com>

Intensive Care Unit of the Future (COA-8823-DZ, HS 8803, CS-8803-ED, joint listing, 3 credits)

Project based research studio, with research methodology include field observations, and interdisciplinary collaboration among students from Architecture, PhD program, Computer Science, Human Computer Interaction, System Engineering, Health System Engineering), co-taught with Craig Zimring, David Cowan, Jeremy Ackerman (MD PhD Emory University)
<http://hsi.gatech.edu/icu/>

Design Games (COA-8843 ED #86160, and CS 8803-DG #86364, 3 credits)

Research seminar with literature reviews and projects concerning wellness and technology
Wiki site https://wiki.cc.gatech.edu/designcomp/index.php/Design_Games_10
Blog site <http://designgames10.wordpress.com/>

Onsite Health Center of the Future (COA-8823-DZ, HS 8803 A, CS-8803-ERF, 3 credits, joint listing)

Project based research studio, with research methodology include field observations, and interdisciplinary collaboration among students from Architecture, PhD program, Computer Science, Human Computer Interaction, System Engineering, Health System Engineering), sponsored by Comprehensive Health Services (CHS), co-taught with Craig Zimring, David Cowan, Jeremy Ackerman (MD PhD Emory University)
<http://www.hsi.gatech.edu/onsitecenter>

Happy Healthy Home – Ambient Intelligence and Innovation (COA 8833-ED, also CS 8803-D), 3 credits

Project based research studio, concerning topics of health aware home, social computing, quality of life issue, chronic care for the very young and the very old, ambient intelligence, ubiquitous computing, architectural robotics, etc.

Wiki site https://wiki.cc.gatech.edu/designcomp/index.php/Happy_Healthy_Home_10
Blog site - <http://happyhealthyhome.wordpress.com/>

Creativity and Design Cognition (COA-8843, and CS 8803-ED, 3 credits)

This course investigates the making of computational methods, models, tools and analysis for creativity, design and cognition. The seminar engages in readings and discussions about the nature and studies of creativity and design cognition, ranging from the literature of design thinking and methods, representations and theories on design, models and computational support for creativity, design process and collaboration.

Wiki site https://wiki.cc.gatech.edu/designcomp/index.php/Creativity_and_Design_Cognition_10
Blog site <http://creativdesigncognition.wordpress.com>

Emergency Room of the Future (COA-8803-ED, COA-8823-DZ, CS-8803-ED, joint listing, 3 credits)

Project based research studio, with research methodology include field observations, and interdisciplinary collaboration among students from Architecture, PhD program, Computer Science, Human Computer Interaction, System Engineering, Health System Engineering), sponsored by Perkins+Will, co-taught with Craig Zimring, David Cowan, Jeremy Ackerman (MD PhD Emory University), Marvina Williams (RN, Perkins+Will), Marilyn Margolis (RN, MN, Director, Nursing Operations, Emory University Hospital)
<http://www.hsi.gatech.edu/~erfuture>

Design Games (COA-8843, and CS 8803-ED, 3 credits)

Research seminar with literature reviews and projects concerning wellness and technology

http://dcom.arch.gatech.edu/wiki/index.php?title=Design_Games (wiki/Carmen)

Wellness, Emotion, Sex and Technology (COA-8843, and CS 8803-ED, 3 credits)

Research seminar with literature reviews and projects concerning wellness and technology
http://dcom.arch.gatech.edu/wiki/index.php?title=Wellness%2C_Emotion%2C_Sex_and_Technology

Creativity and Design Cognition (COA-8843, and CS 8803-ED, 3 credits)

Research seminar with literature reviews and design thinking research and protocol analysis
http://dcom.arch.gatech.edu/wiki/index.php?title=Creativity_and_Design_Cognition_08

Design Computing and Everywhere (COA-8843, and CS 8803-ED, 3 credits)

Research seminar with literature reviews concerning ubiquitous computing and calm technology
http://dcom.arch.gatech.edu/wiki/index.php?title=Design_Computing_and_Everywhere

Pediatric Center of the Future (COA-8803-ED, COA-8823-DZ, CS-8803-ED, joint listing, 3 credits)

Project based research studio, with research methodology include field observations, and interdisciplinary collaboration among students from Architecture, PhD program, Computer Science, Human Computer Interaction, System Engineering, Health System Engineering), sponsored by Perkins+Will and Health Systems Institute Seed Grant, co-taught with Craig Zimring, David Cowan and Gerri Lamb (Emory School of Nursing)
<http://www.hsi.gatech.edu/~pedcenter>

Creativity and Design Cognition (COA-8843, and CS 8803-ED, 3 credits)

Research seminar with literature reviews and design thinking research and protocol analysis
http://dcom.arch.gatech.edu/wiki/index.php?title=Creativity_and_Design_Cognition

Patient Room of the Future (COA-8803-ED, COA-8823-DZ, ARCH-8823-SK, CS-8803-ED, joint listing, 3 credits)

Project based research studio, with research methodology include field observations, and interdisciplinary collaboration among students from Architecture, PhD program, Industrial Design, Computer Science, Human Factors, Health System Engineering, Emory School of Nursing), sponsored by Steelcase. Co-taught with Craig Zimring, Abir Mullick, Sabir Kahn, David Cowan, Gerri Lamb, Claudia Winegarten
<http://cool.coa.gatech.edu/patientroom>

Ambient Intelligence for Home Energy (COA-8843-ED 3 credits)

Research seminar and project course, developing ambient devices for monitoring home energy use, supported by Georgia Tech Strategic Energy Initiative (SEI), Creating Energy Options (CEO) grant
<http://wiki.cc.gatech.edu/ambient/>

Design of Computational Design Systems (48-748, 12 units), Making Interactive Toys

project courses at Carnegie Mellon University
<http://code.arc.cmu.edu>

Home 2020, Studio X for eXplore (48-550, 48-706, 18 units), Inventing Futures with Design Computing (48-733, 9-18 units)

Project based, experimental studio, with multi-disciplinary enrollment
<http://code.arc.cmu.edu/home-2020/html/>

Rapid Prototyping Design (39-245, 2 sessions, 18 units, co-taught with Susan Finger)

Project based, hands-on rapid design through physical and virtual prototyping, for engineering students
<http://www.cs.cmu.edu/~rapidproto/home.html>

Collaborative Learning in Design (12-744, 12 units, co-taught with Susan Finger)

Research seminar on computer supported collaborative learning, learning theory, learner-centered design
<http://thekiva.org/designlearning/login.php?loc=%2Fdesignlearning%2Findex.php%3F>

Computational Design Colloquium (48-749, 9 units),

Weekly talks and discussion with faculty and students on campus, Carnegie Mellon University
<http://code.arc.cmu.edu/~ellendo/lablunch/schedule.txt>
<http://code.arc.cmu.edu/~ellendo/lablunch/schedule-s05.txt>
<http://code.arc.cmu.edu/~ellendo/lablunch/schedule-f04.txt>

Computational Design Research Seminar (48-781, 12 units)

Research seminar with reading and discussions about HCI, Ubiquitous Computing and Design Computing
<http://code.arc.cmu.edu/~ellendo/reading.txt>

Visual Thinking and Spatial Reasoning (GIS 172) - General Interdisciplinary Studies (5 credits)

Early Fall Start and Honors Program, University of Washington
<http://depts.washington.edu/efs/courses.html>
New seminar course for undergraduate students
Development of hands-on interactive learning modules and web site
<http://courses.washington.edu/visual>

Visual Thinking and Creative Problem Solving (GIS 197D) (1 credit)

Freshman Seminar Program, University of Washington
<http://depts.washington.edu/seminars/>
New seminar course for undergraduate students
Development of hands-on interactive learning modules and web site
<http://courses.washington.edu/creative>

Design Computing Theory (Arch 587) (3 credits)

Department of Architecture, University of Washington
New seminar course. Development of course curriculum and web site
<http://courses.washington.edu/larch587>
Introduction, reading, projects and discussions of design methods and theory for the studies of design practice, design computing and design thinking, including style analysis, shape grammars, Artificial Intelligence and Cognitive Science.

Computer Graphics Programming (Arch 498) - now Arch 486 (3 credits)

Department of Architecture, University of Washington
New seminar course. Development of course exercises and web site
<http://courses.washington.edu/lisp>
Introduction to design and implementation of computer graphics programs (in Lisp) for design thinking.

Design Computing Seminar (Arch 498/600) - now as Arch 484 (3 credits)

Department of Architecture, University of Washington
New seminar course. The course has continued since 1999 - present.
<http://courses.washington.edu/lablunch>
Introduction, reading and discussions of a variety of design computing topics

Digital Design Media (Arch 311) (3 credits)

Department of Architecture, University of Washington
New seminar course. Development of course exercises and web site
<http://courses.washington.edu/arch311>
Introduction of 2D and 3D digital media and integration with physical media in design process

Computers in Architecture (introduction to computing in design, Arch 370) - now Arch 380 (3 credits)

Department of Architecture, University of Washington

Revised lecture and lab course, development of course exercises and web site
<http://courses.washington.edu/arch370>

Fundamental of computer applications for architectural design

Collaborated with University of Oregon's Arch 484/584 course (N. Cheng) on investigation and analysis of Bernard Maybeck's architecture elements (Winter 2000).

Digital Design Studio (Arch 402/505, Arch 503) (6 credits)

Department of Architecture, University of Washington

New studio course, studio web site, resources and CD-ROM production

http://dds.caup.washington.edu/DDS_sp2000/

Downtown Seattle open space, multi-functional, complex commercial buildings.

Participated community workshops and downtown city design forum (CityDesign).

New studio course, studio web site, resources and CD-ROM production

<http://dds.caup.washington.edu/a00/index.html>

Northgate redevelopment, Community Center, Library and open space

Participated in community workshops.

Collaborated with Landscape Studio LA 504 (K. Hill).

New studio course, studio web site, resources and CD-ROM production

<http://dds.caup.washington.edu/au01/index.html>

People, Places and Play, redevelopment of pedestrian-friendly 5th Avenue

Participated community workshops and presentations.

Collaborated with Urban Design Studio UDP 508 (D. Abramson)

Joint charettes with School of Community and Regional Planning, (P. Gurstein, E. McDonald) at University of British Columbia, Canada

New studio course, studio web site, resources and CD-ROM production

<http://courses.washington.edu/studio03/>

Inventing Futures: Spaces, Computing and Toys

Experimental studio investigated in inventing future built environments

Projects include flexible construction toy, portable room, responsive media space, morphing modular construction, interactive sound space, adjustable urban plaza seating, and energy conservation tutor

Digital Design Dreams: Developing Design with Computers (Arch 498) - now Arch 575 (3 credits)

Department of Architecture, University of Washington

New seminar course, web site and resources

<http://courses.washington.edu/arch498u>

Development, discussion, preparation of independent projects and thesis using digital media

Managing Architecture & Planning Computer Facilities (ENVD 3919) (3 credits)

College of Architecture and Planning, University of Colorado at Boulder

New seminar course and web site

Weekly seminar on various topics, and hands-on experience of computer resources

Graphics Programming (ENVD 3252) (3 credits)

College of Architecture and Planning, University of Colorado at Boulder

Revised seminar course.

Introduction and implementation of computer software to explore design process with graphics.

Alias Studio (ARCH/ID 4904) (5 credits)

College of Architecture, Georgia Institute of Technology

New course

Design of special event portable service carts. Sponsored by Coca Cola, Inc.

Advanced Computer Graphics (ARCH 8951) (3 credits)

College of Architecture, Georgia Institute of Technology
New course
Introduction of computer modeling, rendering, and animation using SGI's Alias software

Multimedia and Animations (ARCH 8000) (3 credits)

College of Architecture, Georgia Institute of Technology
New course
Advanced topics in multi-media design presentations and animation making.

DOCTORAL COMMITTEE

Adviser

Vicki Haberman	Design Computing, Georgia Institute of Technology (Spring 2010 – Spring 2012) Strategic Approach for Influencing Design Decisions Associated with Inclusive Mobile Phone User Experience – a case study, Dissertation proposal 9/12/2011, “Designing for Diverse Users – A Case Study on Touchscreen Smartphone Customization” Dissertation defense, 3/26/2012, ETD approval April 4, 2012. Advisor: Ellen Yi-Luen Do, Committee: Jim Budd, Alexandra Mazalek, Michael L Jones, Bruce Claxton.
Hyungsin Kim	Human Centered Computing, College of Computing, Georgia Institute of Technology (Spring 2009 – Spring 2013)
Paula Gomez	Design Computing, Georgia Institute of Technology, College of Architecture (Fall 2008 – present), working on Qualifying paper
Chih-Pin Hsiao	Design Computing, School of Architecture, Tangible Interface for Architectural modeling and design, Fall 2010 - present
Elif Yagmur-Kilmici	Design Cognition, Georgia Institute of Technology, College of Architecture (Fall 2006 – Fall 2010), proposal Jan 7, 2009, dissertation defense June 28, 2010 “3D Mental Visualization in Architectural Design,” Co-chairs with Chuck Eastman, Nancy Nersessian (ETD approval 7/30/2010)
Chung-Lun Kuo	The role of sketching in design, design tools and early detection of child illness, Georgia Institute of Technology, College of Architecture (Spring 2008 – present), working on qualifying paper
Sherif Morad AbdelMohsen	Intelligent sketching and physical computing tools for design, Georgia Institute of Technology, College of Architecture (Fall 2006 – Spring 2010, proposal defended)
Seunghyn (Tina) Lee	Design Cognition, Georgia Institute of Technology, College of Architecture (Fall 2009 –2010)
Pedro Soza	Design Cognition, Georgia Institute of Technology, College of Architecture (Fall 2009 –Spring 2011), on Qualifying Paper
Altug Kasali	Design Cognition, Georgia Institute of Technology, College of Architecture (Fall 2008 – 2009)
Maher El Khadi	Design Computing, Georgia Institute of Technology, College of Architecture (Fall 2007 – Spring 2008)
Loping Wei	Design Computing, Computer-mediated communication or/and human-computer interaction with digital media arts and entertainment, Georgia Institute of Technology, College of Architecture (Fall 2006 – Fall 2008) On the Context of Context - Context Theory and Human-Computer Interaction (Qualifying paper approved 2008)

Committee

Kurt Luther	(Human Centered Computing), School of Interactive Computing, Georgia Institute of Technology Dissertation Proposal (May 6, 2009), Final defense July 11, 2012, Supporting and Transforming Leadership in Online Creative Collaboration, Chair: Amy Bruckman, ETD approval 8/25/2012
Hui Cai	(Architecture, Culture, Behavior), Analyzing and Coding Inspirations in Design Cognition, College of Architecture (Fall 2007 – present) Comprehensive Exam (2 nd reader for Major), October 14, 2009, “To Make "Invisible Architecture Visible": A Study of Nursing Unit Typology and Caregivers’ Face-to-face Communication in Two Old and Two New Nursing Units in China” Proposal (May 12, 2010), final defense May 4, 2012, Cultural Aspects of Nursing Unit Typologies:A Comparative Study on Nursing Unit Typologies in the U.S. and China Chair: Craig Zimring
David Joyner	(Human Centered Computing), School of Interactive Computing, Georgia Institute of Technology, (Fall 2010 – qualifying exam 4/11/2011), Proposal defense 4/22/2013, Chair: Ashok Goel. Committee: Gautam Biswas, Jim Foley, Mark Guzdial, Ellen Yi-Luen Do, final dissertation defense in 2014
(Svet)Lana Yarosh	(Human Centered Computing), School of Interactive Computing, Georgia Institute of Technology, Supporting Remote Synchronous Communication between Parents and Young Children, Proposal defense March 12, 2010, final defense March 16, 2012, ETD approval, April 4, 2012, Chair: Gregory Abowd, Committee: Amy Bruckman, Ellen Yi-Luen Do, Panos Markopoulos and Elizabeth Mynatt
Tanya T Markow	(Human Centered Computing), School of Interactive Computing, Georgia Institute of Technology Dissertation Proposal (Dec 17, 2010) Passive Haptic Rehabilitation and Learning, Dissertation Defense, 3/9/2012, Mobile Music Touch: Using Music for Passive Haptic Rehabilitation and Learning, Chair: Thad Starner, Committee: Gregory Abowd, Deborah Backus, Ellen Yi-Luen Do, and Melody Moore-Jackson, ETD approval 3/30/2012
YoungSeon Choi	(Architecture, Culture, Behavior), “Healthcare Architecture and Falls: Investigation on Physical Environmental Factors Affecting the Likelihood of a Fall” Architectural, Cultural, Behavior, College of Architecture, proposal May 4, 2010, final defense, Nov 9, 2011, The Physical Environment and Patient Safety: An Investigation of Physical Environmental Factors Associated with Inpatient Falls, ETD approval Nov 21, 2011, Chair: Craig Zimring
Hyun-Bo Seo	(Architecture, Culture, Behavior), College of Architecture, An Investigation on Task Interruptions and the Physical Environment for Human Performance, Dissertation defense, Jun 23, 2011, ETD approval, July 14, 2011, Chair: Zimring
Carrie Bruce	(Human Centered Computing), School of Interactive Computing, Georgia Institute of Technology (Spring 2009 – qualifying exam) April 14, 2009, Chair: Melody Moore-Jackson, Facilitating Participation in Adults with Vision Loss through Real-Time Descriptive Exhibit Mediation, proposal defense, May 4, 2011, Chair: Bruce Walker, Committee: Ellen Yi-Luen Do, Beth Mynatt, Jon Sanford, final dissertation defense in 2013
Iulian Radu	(Human Centered Computing), School of Interactive Computing, Georgia Institute of Technology (Spring 2009 – qualifying exam) April 21, 2009, Chair: Blair MacIntyre, proposal defense 4/15/2013, Chair: Blair MacIntyre, committee: Ashok Goel, Jim Foley, Ellen Yi-Luen Do
Jae-Min Lee	(Design Computing), College of Architecture, Georgia Tech, Dissertation Proposal, “Automatic Checking of Pedestrian Circulation Rules - Development of an integrated method for automatic checking of pedestrian circulation rules,” March 26, 2009, Dissertation defense (May 22 nd , ETD approval July 6 th) Chair: Eastman
Brian Schrank	(Digital Media) Ivan Allen College, Play Beyond Flow: A Theory of Avant-Garde Videogames (10/29/2010 defended, ETD approval 11/11/2010) Chair: Jay David Bolter
Daniel Saakes	(Industrial Design Engineering), Technical University Delft, the Netherlands Shape Does Matter – designing materials in products, Chair: Pieter Jan Stappers (dissertation defense Nov 2010)

Yeonjoo Oh	(Computational Design), School of Architecture, Carnegie Mellon University, Toward A Theory of Design Critiquing – The Furniture Design Critic Program, Carnegie Mellon University (Fall 2004 – Fall 2010, PhD candidate since 2007, proposal 2009, defense 9/13/2010)
Mario Romero	(Human-Centered Computing), College of Computing, Georgia Tech, Activity Characterization, (Jan 2007 – Spring 2009) Dissertation defense, June 24, 2009, Chair: Gregory Abowd
Jeonghwa Yang	(Human Centered Computing), College of Computing, Georgia Tech – Dissertation final defense (October 19, 2009), Eden: An Interactive Home Network Management System (Committee), Chair: Keith Edwards
Fatima Boujarwah	(Computer Science), School of Interactive Computing, Georgia Institute of Technology (Spring 2010 – Qualifying exam), April 8 th , 2010, Chair: Gregory Abowd
Nazneen	(Computer Science), School of Interactive Computing, Georgia Institute of Technology (Fall 2010 – Qualifying exam), December 6 th , 2010, Chair: Gregory Abowd
Jennifer Stoll	(Human Centered Computing), School of Interactive Computing, Georgia Institute of Technology (Spring 2009 – qualifying exam) March 30, 2009, Chair: Keith Edwards
Geoffrey Thomas	(Digital Media), LCC - School of Literature, Communication, and Culture, Georgia Institute of Technology, Ivan Allen College of Liberal Arts (Fall 2008 –2010) defense March 2010, ETD approval April 1) Chair: Jay Bolter
Hyun Jean Lee	(Digital Media), LCC - School of Literature, Communication, and Culture, Georgia Institute of Technology, Ivan Allen College of Liberal Arts (Fall 2008 graduated)
Kemaporn Jayanetra	(Architecture, Culture, Behavior), Restorative Environments for the Hospice Patient Room, College of Architecture (Fall 2006 –), Chair: Craig Zimring
Pegah Zamani	(Morphology), Spatial Dimension of Grouping: A Morphological Critique of Galleries in the High Museum of Art, College of Architecture, Georgia Institute of Technology (Fall 2006 – 2008, defense 08), Chair: John Peponis
Eduoard Din	(Design Computing), Unfolding Geometries: Abstract Structures and Emergent Symmetries – The Smith House Case Study, College of Architecture, Georgia Institute of Technology (Fall 2006 – Summer 2008, dissertation defense and degree confirmation, 08), Chairs: Thanos Economou and Chuck Eastmans
Tae-Jung Yun	(Computer Science), School of Interactive Computing, Georgia Institute of Technology (Spring 2010 – Qualifying exam), April 9 th , 2010, Chair: Gregory Abowd
Michael E Helms	College of Computing, Georgia Tech (Fall 2008 – qualifying exam), proposal defense, September 1, 2011, Solution Based Problem Evolution and Problem Inception in Biologically Inspired Design, Chair: Ashok Goel
Susan Wyche	(Human Centered Computing), College of Computing, Georgia Tech, Intersection of religion, qualitative research, ubiquitous computing and creative design (Jan 2007 qualifying exam), Chair: Beki Grinter
Zach Pousman	(Human-Centered Computing), College of Computing, Georgia Tech Information Visualization for Social Interactions at Home, (Jan 2007 – qualifying exam)
Chris Le Dantec	(Human Centered Computing), Design for Dignity and Value Transfer Design, College of Computing, Georgia Tech (Jan 2007 – qualifying exam), Chair: Keith Edwards
Gabe Johnson	(Computational Design), Freehand sketching interface for rapid manufacturing, Designosaur and Flat CAD, Carnegie Mellon University (Fall 2005 – 2012)
Tony Sheng-Kai Tang	(Computational Design), Story Telling Cubes, Computational Design, Carnegie Mellon University (Fall 2005 – 2007)

Sora Key	(Computational Design), Design Tools for Architectural Qualities, Computational Design, Carnegie Mellon University (Fall 2005 – 2008)
Chun-Heng Ho	(Design Cognition), “Spatial Cognition in Design”, Dissertation Defense presented in September 2006, Georgia Institute of Technology, Chair: Chuck Eastman
Tsung-Hsien Wang	(Computational Design), Tangible Notes, Computational Design, Carnegie Mellon University (Fall 2005 – Spring 2006)
Yu-Chang Hu	(Computational Design), Design Tools, Computational Design, Carnegie Mellon University (Fall 2005 – Spring 2006)
Mike Weller	(Computational Design), Architectural Robotics, self-configuring building blocks, Computational Design, Carnegie Mellon University (Fall 2004- present, PhD candidate since 2006, proposal 2009)
Ming-Chun Lee	(Architecture), Visualization of Urban Design and Planning Processes, University of Washington, Interdisciplinary Ph.D program in Urban Design and Planning (Fall 2002 - 2004)
Ken Camarata	(Architecture), Human Computer Interaction with Physical Computing, University of Washington, Ph.D. Program in Built Environment, University of Washington, College of Architecture and Urban Planning (Fall 2003 – 2004)
Daniel Glaser	(Interdisciplinary PhD) Space Series: an experimental software prototype for visualizing daylighting”, University of California, Berkeley (98-2004). Co-Chair with Professor John Canny of Computer Science, University of California, Berkeley. (Fall 1998 - 2004) (Interdisciplinary Ph.D. Program, attended commencement Spring 2004)

External Examiner:

Daniel Saakes	(IDE), Shape Does Matter – designing materials in products, PhD. Industrial Design Engineering, Technical University Delft, the Netherlands, Chair: Pieter Jan Stappers (Nov 2010)
Rohan O'Neil Bailey	(Architecture) The Digital Design Coach: Enhancing Design Conversations in Architectural Education, Ph.D., Victoria University of Wellington, New Zealand. (2004), Chair: David Kernohan

MASTER THESIS COMMITTEES

Chair:

Nicole Blackwell	(Human-Computer Interaction) Vidal Locale (Local Food Guide) – Fall 2011 – Fall 2012)
Andrew Harbor	(Human-Computer Interaction) Crowd Sourcing Contribution (neighborhood finder) – Spring 2012 – Fall 2012)
Marc Carroll	(Human-Computer Interaction) Hand-writing based Social Media Applications (Fall 2012 – present)
Nitya Noronha	(Human-Computer Interaction) Remind Me (Fall 2012 – Spring 2013)
Srikanth Jalsutram	(Industrial Design), Design of an intelligent posture guidance system for workspace seating, thesis defense May 17, 2011, ETD approval July 5, 2011
Halley Profita	(Industrial Design), The Social Acceptability of Wearable Technology Use in Public, An Exploration of the Societal Perceptions of a Gesture-based Mobile Textile Interface, thesis defense May 19, 2011, ETD approval May 23, 2011

Stephanie A Allen	(Human-Computer Interaction), Sew Easy - Assistive Technology for Garment Construction and Home Decoration Projects, presented Spring 2011
Stephen W Garrett	(Human-Computer Interaction) Mobile Framework for Audience participation with Dance Performance, co-chair with Jason Freeman, presented Spring 2011
Szu-Chai Lu	(Human-Computer Interaction) Creativity Support Tools and mediRobbi – robotic companion for pediatric patients in hospital visits, presented Spring 2011
Navin R. Maharaj	(Computer Science) Toddler Drawing Application – presented Summer 2011
Viraj V. Sapre	(Human-Computer Interaction) Item Recalls and Cognitive Stimulation Games, Spring 2011
Nibha Jain	(Industrial Design) “Exploring Interactive Tangrams For Teaching Basic School Physics” (presented in May, ETD approval May 24, 2010), committee members: Abir Mullick, Ali Mazalek
Chris Wen-Hong Neoh	(Industrial Design) “Designing a Portable Data-Capture Device for Clinicians Transitioning to Electronic Medical Records in Outpatient Environments,” Master of Industrial Design, presented April 28, 2010
Jasmine Williams	(Industrial Design) “Locomotion Storytelling: Kinesthetic Intelligence and Tangible Objects in Storytelling Creativity“ presented April 28, 2010, Master of Industrial Design
Brian Holcombe	(Industrial Design) “Designing Wireless Mesh Network for Emergency Service after Disaster,” Master of Industrial Design, to present in August 2010
Carol Bales	(Human-Computer Interaction) Organization of Creative Designers’ Environment, HCI, Spring 2009
Marc Lawson	(Human-Computer Interaction) Helping Hands – Light-weight RFID Glove for Visually Impaired, HCI, Fall 2009 – 2011 presented
John Ring	(Computer Science), College of Computing, Trailing References, investigation and analysis of research citations, Fall 2009
Jesse Smith	(Human-Computer Interaction) Business Plan for Computing Innovations, CS, Fall 2009
Young Suk Cho	(Computer Science) Handwriting Recognition for Automatic Clock Drawing Test project, CS, Spring 2010 - present
Anupam Guah	(Computer Science) Automatic language Understanding and Diagnosis for Medical treatment conversation, CS, Fall 2009, and Spring 2010
David Joyner	(Human-Computer Interaction) Investigating Optical Chess game on a Tangible Tabletop, CS, Fall 2009
Rung-Yu Tseng	(Design Computing) “How Information and Computing Technology (ICT) Facilitate the Life for Children with Autism Spectrum Disorder (ASD), presented in November 2008, Master of Science in Design Computing, Georgia Institute of Technology
Travis Fischer	(Computer Science) “Sketch-to-Robot interaction, Fall 2006, Fall 2007
Markus Eng	(Architecture) "FlexM: A Flexible Design Construction Toy", presented in June 2004. Project received 2003 College Graduate Student Award for Interdisciplinary Research.
Doo Young Kwon	(Design Computing) “ArchiDNA: Shape Generative System for Rule-based Operations,” Master of Science in Design Computing, presented November 2003.
Yeonjoo Oh	(Design Computing) "Design Evaluator: sketching interface with design evaluation," Master of Science in Design Computing, presented November 2003.

Babak Ziraknejad	"Intelligent Home Environment, e-Frame and interactive furniture" Master of Science in Design Computing, presented in June 2004.
Chen-Je Huang	(Design Computing) "MouseHaus Table: a physical interface for group interaction with urban pedestrian simulation," Master of Science in Design Computing, presented November 2003. Project received 2003 College Graduate Student Award for Interdisciplinary Research. University of Washington
Golnaz Mohammadi	(Design Computing) "Design Pattern Generator: parametric modeling of geometry," Master of Science in Design Computing, presented in June 2004.
Peter St. George	(Landscape Architecture) "The Virtual Client: an Exploration into the Teaching of Digital Media," Landscape Architecture, January 2005. University of Washington
Mike Weller	(Design Computing) "Espresso Architecture," self-organizing robotic building blocks for live/work space, presented in June 2003. University of Washington
Julie Chen	(Architecture) "DAM: Digital Animation Museum", a design of animation theater and wireless communication device, presented May 2002, University of Washington
Ming-Chun Lee	(Architecture) "Space Maker: a symbol based 3D computer modeling tool for early schematic development of the architectural design," presented November 2001. University of Washington
Kennith A. Camarata	(Architecture) "Navigational Blocks, an interplay between the physical and the virtual," presented in June 2001. Thesis Award. University of Washington
Robert M. Harris	(Landscape Architecture) "Digital Sandbox: integrating design and analysis in a new digital earth forming tool", Landscape Architecture, University of Washington, presented in May 2001.
Gabriel Q. Hanson	(Architecture) "Connection, Orientation, and Transition: Exploring Place-Based Physical Environment in a Digital Media Firm," presented in March 2001. University of Washington
<u>Member:</u>	
Sang Won Lee	(Music Technology) ETD approval, May 21, 2012, Audience Participation Using Mobile Phones as Musical Instruments, Chair: Jason Freeman
Shabnam Ghaffari	(Industrial Design & Business) Will it Fit? Consumer Decision Making in Online Shopping Environments, (defended 12/17/2010, ETD approved 1/21/2011), Chair: Nicolas H Lurie
Pauline Chan	(Digital media) Narrative participation within Game Environments: Role-Playing in MMOs, Master of Digital Media, School of Literature, Communication, and Culture, Georgia Institute of Technology Chair: Celia Pearce (9/200 – 10/28/2010)
Seunghyun Tina Lee	(INDUSTRIAL DESIGN), "A System For Distributed Collaboration That Supports Interaction And Sharing Information", Master of Industrial Design, College of Architecture, Georgia Institute of Technology, June 2009
Tania Bilir	(Digital Media) "Economic relationships observed in an online game: Runescape", Master of Digital Media, School of Literature, Communication, and Culture, Georgia Institute of Technology, Chair: Janet Murray, presented July 14, 2009.
Courtenary Bird	(Digital Media) "Enabling Technological Literacy in the Classroom ", Master of Digital Media, School of Literature, Communication, and Culture, Georgia Institute of Technology, thesis presentation June 14, 2009. Chair: Carl DiSalvo
Abhishek Gupta	(Digital media) "User Experience Enhancements for Web Browsers," Master of Digital Media, School of Literature, Communication, and Culture, Georgia Institute of Technology, April 2009

Heerin Lee	(Digital Media) "Connected Space," Master of Digital Media, School of Literature, Communication, and Culture, Georgia Institute of Technology, April 2009
Bobby Schweizer	(Digital Media) "Representations of the City in Video Games," Master of Digital Media, School of Literature, Communication, and Culture, Georgia Institute of Technology, March 2009
Preechaya Therakomen	(Architecture) "Mouse.class: Experiments for Exploring Dynamic Behaviors in Urban Spaces", presented in November 2001, University of Washington
Dustin Eggink	(Architecture) "Smart Objects: Constraints and Behaviors in a Collaborative Design Environment", presented in May 2001, University of Washington
Luis F. Borrero	(Architecture) "deliver E room: a new physical space for the residential units to come," presented March 2001, University of Washington
Brian J. Palidar	(Architecture) "Live and Direct: A Research and Development Facility for Robotics and Artificial Intelligence Applications," presented in March 2000, University of Washington

External Examiner:

Zhenyu (Cheryl) Qian	(Interactive Arts and Technology), A Pattern Approach to Support Digital Interpretation, Master of Applied Science, School of Interactive Arts and Technology, Simon Fraser University, Chair: John Nesbit, Committee: Robert Woodbury, Jim Bizzocchi, April 2004
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Doctoral Dissertation Committee Member (as Graduate School Representative):

Yi Li	(Computer Science and Engineering), PhD, Committee: Linda Shapiro, Jeffrey Bilimes, Marina Meila, Steve Tanimoto, General Exam, March 5, 2004.
Eric S. Wiltshire	(Musical Arts) Doctoral exam, University of Washington, Chair: Steven Morrison, General Exam March 2003, qualify exam and dissertation proposal defense, January 9, 2004
Toshie Ueda	(Musical Arts) "Life and Music style of Toru Takemitsu", Doctoral of Musical Arts, University of Washington Chair: Professor Craig Sheppard. General Exam May 29, 2002, Analysis, Comparison, and History of Composers," dissertation defense, June 2003
Diana Mae Greenlee	(Anthropology), "Accounting for subsistence variation among maize farmers in Ohio valley prehistory", PhD, University of Washington, May 10, 2002 Chair: Professor Robert Dunnell
Raydell C Bradley	(Musical Arts) "A Study of the Liturgical and Programmatic Aspects of Selected Wind Ensemble Compositions of David Gillingham", Doctoral exam, University of Washington, June 2000

GRADUATE INDEPENDENT STUDIES AND PROJECTS - PHD

Sabri Gokmen (DC)	PhD in Design Computing, School of Architecture, Georgia Institute of Technology Computing Designs with Generative Systems Spring 2011
Paula Gomez (DC PhD)	PhD in Design Computing, School of Architecture, Georgia Institute of Technology Behavior Imaging and Information Visualization of Interactions in a Room, Spring 2010-11
Pedro Soza (DCog PhD)	PhD in Design Cognition, School of Architecture, Georgia Institute of Technology Investigating Categorical or Hierarchical Perception of Shapes in Design (Spring 2010 - 11)
Chih-Pin Hsiao (DC PhD)	PhD in Design Computing, School of Architecture, Georgia Institute of Technology Tangible Interface for Architectural modeling and design, Fall 2010

Hyungsin Kim (HCC PhD)	PhD in Human Centered Computing, Georgia Institute of Technology Virtual Grocery Hunter, and Accessing Items for Visually Impaired, Spring 2009
Iulian Radu (HCC PhD)	PhD in Human Centered Computing, Georgia Institute of Technology Investigating Mental Model for Collaborative Augmented Reality, Summer 2008
Chung-Lun Kuo (DC PhD)	PhD in Design Computing, School of Architecture, Georgia Institute of Technology Computing Activities for Senior Housing, Nocturia and Health Aware Home (Fall 2010)
Sherif Abdel Mohsen (DC PhD)	PhD in Design Computing, School of Architecture, Georgia Institute of Technology Thesis hour (12) - An Ethnographically Informed Analysis of Design Intent Communication in BIM-Enabled Architectural Practice (Spring 2010)
Heng Yang (CS PhD)	PhD in Computer Science, School of Computer Science and Engineering, Northwestern Polytechnical University, Xi'an, 710072, P.R. China (2009) Pattern Recognition
Peijung Cheng (Design PhD)	PhD, Graduate School of Design, National Yunlin University of Science and Technology, Yunlin, Taiwan, ROC (Fall 2009 – Spring 2010) Design Ideation Study
Altug Kasali (DCog PhD)	Analyzing Design Activity and Information Visualization of Data (Spring 2009)
Hugo Sheward Garcia (DC PhD)	PhD, Design Computing, Analyzing Comprehension through Highlighting Interaction on Document Reading, Spring 2008
Mamoun Sakkal (NME, PhD)	Near and Middle Eastern Studies, University of Washington Research outline for Islamic architecture geometry analysis, computational tools to support geometry generations and verification of historical buildings with analysis Fall 2001
Kathleen Kern (UDP Ph.D)	Development and implementation of Jake-O-Meter, University of Washington a database project and game for urban design and education. The Jake-O-Meter provides aspiring streetscape designers with a collection of example streets and their properties from Alan Jacob's book "Great Streets". Fall 2000, Winter 2001, Spring 2001.
DonQiu Qian (ENVD PhD)	NetDraw, a Collaborative Design Drawing Program in Java, University of Colorado Light Weight Java-based computer aided design Toolbox Fall 1998 and Spring 1999

GRADUATE INDEPENDENT STUDIES AND PROJECTS - MASTERS

Charmant Kai Tan (MS HCI)	Ambient Alert system, Spring 2012
Howard Wang (Arch)	Designing Urban Space with Ubiquitous Computing and Social Media, Spring 2010
Nibha Jain (ID)	Tangible Tangrams for Physics Learning, Spring 2010
Marc Lawson (HCI)	Master of Science in Human-Computer Interaction, Georgia Institute of Technology Talk 2 the Hand, and Helping Hand, Spring 2009
Kevin Huang (CS)	Piano Touch – passive haptic learning, Spring 2009
Carol Bales (HCI)	Master of Science in Human-Computer Interaction, Georgia Institute of Technology Computer Support Tools for Problem Finding, Summer 2008
Michael Goodwin (MArch)	Master of Architecture, Georgia Institute of Technology Understanding Water as more than just H2O, Summer 2008
Seunghyun (Tina) Lee (ID)	Master of Industrial Design, Georgia Institute of Technology Tools and platform for collaborative creative design, Fall 2008
Darren Scott Appling (CS)	Master of Science in Computer Science, Georgia Institute of Technology Statistic Modeling of Language Translation, Summer and Fall 2008

Michael Goodwin (MArch)	Master of Architecture, Georgia Institute of Technology Green Aware Home - Making Aware Home Sustainable, Fall 2007
Yeonjoo Oh (MS)	Master of Science in Design Computing, University of Washington Visualization and Design Evaluation, Fall 2002 and Winter 2003
Doo-Young Kwon (MS)	Master of Science in Design Computing, University of Washington Creative Shape Generative Systems and Toys, Fall 2002 and Winter 2003
Chen-Je Huang (MS)	Master of Science in Design Computing, University of Washington Tangible MouseHaus – a tangible user interface for urban pedestrian simulation, and Tangible User Interface Toolkit. Spring, Summer and Fall 2002, Winter 2003
Sebastien Bund (Arch)	Visiting Graduate Student, Centre de Recherche en Architecture et Ingénierie, CRAI, France Sun Light Analyst, a system prototype development for 3D visualization of direct sun light project in a project building in a period of time, Summer 2002
Ming-Chun Lee (Arch + UDP)	As M Arch student, worked on diagram symbols to 3D space creation, Fall 2001 Winter, Spring and Summer 2002 on FormWriter project with OpenGL interface. Incoming Interdisciplinary Urban Design and Planning Ph.D. Program Fall 2002. University of Washington
Julie Chen (Arch)	Literature search of wireless technology research, Personal Digital Assistant, mobile phone and Bluetooth technology. Fall 2001, University of Washington Programming a point-draw-animate software on PDA. Winter 2002
Nan-Ching Tai (Arch)	Design & Organization of Multi-Media Information Presentation, Summer 2000 Bubble diagram editor with square footage constraints, Winter 2001
Michael P. Weller (Arch)	Implementation of Web Interaction using Common Gateway Interface (CGI) Language and Perl Script, Summer 2000 Community Tool, Sharable Magnetic Poetry on the Web, Fall 2000, Dynamic Web Site builder, Winter 2001 XML Site Engine, Fall 2001, Winter and Spring 2002
Dustin Eggink (Arch)	Valle Scholarship Development of Smart Objects in Web 3D, Spring, Summer, Fall 2000
William Washington (TC)	(Technical Communication) Information Organization and Literature Survey for Digital Desk, Intelligent Work Environment, Summer 2000, Winter 2001
Sitt Therakomen (Arch + UD)	Developing Storyboards and Video Documentation of Prototype System University Heights: interface and proposal of chat room utility with Virtual Reality Modeling Language (VRML), Summer 2000 MausHaus, a vision simulation of pedestrian's activity in a virtual environment to visualize the pattern of movements and choices of path selections. Fall 2000
Preechaya Therakomen (Arch)	Production and vision video of prototype system for virtual garden, and research on environmental simulation of pedestrian movement pattern in an Urban open space, Summer 2000, University of Washington Development of tools for pedestrian behavior simulation, Fall 2000, Winter 2001
Doddy Samiaji (Arch)	Development and implementation of Development Simulator, University of Washington A program that converts building type, floor area ratio, parking requirements, etc from a spreadsheet to a 3D CAD design environment. Winter 2001, Spring 2001
Thomas Jung (Arch)	Visiting Graduate Student, Centre de Recherche en Architecture et Ingénierie, CRAI, France,

Annotation on 3D VRML Environment
Immersive Redliner, and design competition, Library of Information Age
Fall 1998, and Spring 1999

UNDERGRADUATE INDEPENDENT STUDIES AND SPECIAL PROJECTS

Sravya Kotte (CS)	Junior, Computer Science, Georgia Institute of Technology Designing Cognitive Stimulation Game, Spring 2011
Sameer Yadav (CS)	Junior, Computer Science, Georgia Institute of Technology Designing Cognitive Impairment Screening Instruments, Spring 2011
Saa S. Camanor (Architecture)	Senior, Architecture, Georgia Institute of Technology Modeling and Visualization of Onsite Health Centers, Spring 2010
Stacy Krieg (Architecture)	Senior, Architecture, Georgia Institute of Technology Designing Digital Portfolio and Presentations, Fall 2010
Shiva Talebi (Architecture)	Senior, Architecture, Georgia Institute of Technology Visualization and Field Study of Onsite Health Center, Fall 2010
Elisabeth Robertson (Architecture)	Senior, Architecture, Georgia Institute of Technology Design Practicum, Interior Design and Material, Fall 2009
Cindy Caranto (Architecture)	Senior, Architecture, Georgia Institute of Technology Analyzing Architecture in Europe, Summer 2009
Robert Daniel Jones (Architecture)	Senior, Architecture, Georgia Institute of Technology Green Construction and Sustainability, Fall 2008
Lena Klein (Architecture)	Senior, Architecture, Georgia Institute of Technology The Organic Revolution, biomimcry in architecture, Summer 2008
Drew Bregel (pre-engineering)	Junior, Pre-Engineering, University of Washington Energy Cube, an ambient display for energy awareness, and heuristic evaluation, Fall 2003
Benjamin Hindman	(Freshman, Pre-Engineering) University of Washington Implementation of web based diagram editor for on-line questionnaire survey with XML, Spring and Summer 2003
Osbert Feng (CS)	(Computer Science, UC Berkeley) Implementation of Scythe and Sew: creating meaningful patterns in simulation data, Spring and Summer 2002
Bonnie Tai (CS)	(Computer Science, UC Berkeley) Implementation of Light-Sketch, a freehand sketch interface to lighting simulation, Winter and Spring 2002.
Brian Porter	(General Interdisciplinary Studies) University of Washington Computer software development and intelligent building project Transformation of GIS cell into VRML 3D models, Spring and Summer 2001.
James Giesen	(Chemistry + Carlson Leadership Program) Independent Fieldwork Web, mass media, public relations and promotions: business aspects of a popular alternative music radio station, The End, KNDD, 107.7 FM, Winter, and Spring 2000
Carter Barnes	(General Interdisciplinary Studies) University of Washington Independent Design Project Design with Digital Media and Digital Design Studio, Spring 2000

Nien-Tze Chen (Arch) University of Washington
Independent Studies and Projects
Information Visualization Design, Graphics Representation, Spring & Summer 2000

EDITOR AND CHAIR ON ADVISORY BOARDS, PROFESSIONAL SOCIETIES

- 2011-2013 Editor, International Journal of Automation and Smart Technology (AUSMT), <http://www.ausmt.org>
- 2011 Conference Chair for SBIM 2011 – Sketch Based Interactions and Modeling Symposium, Eurographics and ACM sponsored, to be held pre-SIGGRAPH, and jointly with NPAR – Symposium on Non-Photorealistic Animation and Rendering and CAE – International Symposium on Computational Aesthetics in Graphics, Visualization, and Imaging, to be held in Aug 5-7, 2011, in Vancouver, BC, Canada, <http://www.cl.cam.ac.uk/conference/cae-sbim-npar-2011/SBIM/Home>
- Steering Committee, TEI - Tangible, Embedded, Embodied Interaction, <http://www.tei-conf.org/>
- Program Co-Chair, ACM TEI 11 – Tangible, Embedded, Embodied Interaction, <http://www.tei-conf.org/11/>
- Organizing Committee, Graduate Student Consortium Chair, ACM Creativity and Cognition Conference 2011, Atlanta
- Associate Chair and Reviewer, Interact 2011 – 13th IFIP TC13 Conference on Human Computer Interaction - <http://interact2011.org/>
- Program Committee, IDC – Interaction Design and Children Conference 2011 - <http://www.idc2011.net/>
- Program Committee, International Workshop on Materializing Collaboration Via Tangible User Interfaces, (MCTui 2011), <http://cts2011.cisedu.info/2-conference/workshops/workshop-13--mctui>
- 2010 Program Co-Chair, ACM Eurographics SBIM Symposium, Sketch-Based Interfaces and Modeling <http://graphics.cs.williams.edu/sbim-npar10/index.html>
- Demo Co-Chair, ACM DIS <http://www.dis2010.org/> Aarhus, Denmark
- Advisory Board, Fourth International Conference on Design Computing and Cognition – DCC 10, Stuttgart, Germany <http://mason.gmu.edu/~jgero/conferences/dcc10/>
- Editor, AIEDAM - Artificial Intelligence in Engineering Design, Analysis, and Manufacturing, Special Issue on Design Computing and Cognition, (Vol.24, No.1, Feb 2010) Cambridge University Press, DCC issue, 15 submissions, 75 reviewers (with Ashok Goel) <http://web.cs.wpi.edu/~aiedam/SpecialIssues/DCC08.html>
- 2009 Editorial Board, Journal of Artificial Intelligence for Engineering Design, Analysis, and Manufacturing (AIEDAM), Cambridge University Press <http://journals.cambridge.org/action/displayJournal?jid=AIE>
- Editor, AIEDAM - Artificial Intelligence in Engineering Design, Analysis, and Manufacturing, Special Issue on Tangible Interaction for Design, (Vol.23, No.3, September 2009) Cambridge University Press, 7 article from 17 submissions, 100 reviewers, (each article received at least three reviews, and nine articles received five or more reviews, with Mark Gross) <http://web.cs.wpi.edu/~aiedam/SpecialIssues/Do-Gross.html>
- ACM Creativity and Cognition 2009, Treasurer, Organizing Committee <http://www.creativityandcognition09.org/organizingcommittee.htm>
- AAAI Workshop on Visual Representations and Reasoning <http://dilab.gatech.edu/AAAI-10-VRR-Workshop/>
- SimAUD program committee: Symposium on Simulation for Architecture and Urban Design, <http://www.simaud.org/organizers.php>, <http://www.simaud.org/>

- CHI Senior-Friendly Technologies workshop Workshop co-chair:
<http://www.ece.nus.edu.sg/stfpage/eledbl/chi2010/organizers.html>
 (<http://www.ece.nus.edu.sg/stfpage/eledbl/chi2010/index.html>)
 at CHI 2010 (<http://chi2010.org/authors/cfp-workshop-participants.html>)
- 2008 Editorial Board, Journal of Artificial Intelligence for Engineering Design, Analysis, and Manufacturing (AIEDAM), Cambridge University Press <http://journals.cambridge.org/action/displayJournal?jid=AIE>
- Advisory Board, NSF Science of Learning Center
- Scientific Committee, Eurographics SBIM, Sketch Based Interface and Modeling, 2008
- Advisory Board, Third International Conference on Design Computing and Cognition - DCC'08, Atlanta
- Editorial Board, International Journal of Architectural Computing, Chief Editor, Andre Brown, MultiScience Publishing, UK http://www.multi-science.co.uk/gen_authors.htm
- 2007 Advisory Board, Workshop - Spatial Cognition in Architectural Design Anticipating User Behavior, Layout Legibility, and Route Instructions in the Planning Process in conjunction with international Conference on Spatial Information Theory (COSIT'07) Melbourne, Australia
- Advisory Board, Developing Graduate level Interdisciplinary Curriculum for Creating Safe and Effective Health Care Environments, Robert Wood Johnson Foundation grant to Emory University School of Nursing and Georgia Tech College of Architecture (Robert Wood Johnson Foundation grant)
- Editorial Board, International Journal of Architectural Computing, Chief Editor, Andre Brown, MultiScience Publishing, UK http://www.multi-science.co.uk/gen_authors.htm
- 2006 Scientific Committee, Eurographics SBIM, Sketch Based Interface and Modeling, September 2006, Vienna, Austria, <http://www.eg.org/sbm>
- Advisory Board, Second International Conference on Design Computing and Cognition - DCC'06, Eindhoven, Netherlands <http://www.arch.usyd.edu.au/kcdc/conferences/dcc06>
- Editorial Board, International Journal of Architectural Computing, Chief Editor, Andre Brown MultiScience Publishing, UK http://www.multi-science.co.uk/gen_authors.htm
- 2005 Editor, AIEDAM - Artificial Intelligence in Engineering Design, Analysis, and Manufacturing, Special Issue on Understanding Representing, Reasoning about Style, (Vol.20, No.3, September 2006) Cambridge University Press (Co-Editor Claudia Eckert) <http://www.cs.wpi.edu/~aiedam/SpecialIssues/Eckert-Do.html>
- Editorial Board, International Journal of Architectural Computing, Chief Editor, Andre Brown, MultiScience Publishing, UK http://www.multi-science.co.uk/gen_authors.htm
- 2004 Editorial Board, International Journal of Architectural Computing, Chief Editor, Andre Brown. MultiScience Publishing, UK. http://www.multi-science.co.uk/gen_authors.htm
- Advisory Board, DCC 2004, First International Conference on Design Computing and Cognition, MIT, Cambridge, <http://www.arch.usyd.edu.au/kcdc/conferences/dcc04/>
- Advisory Board, G-CAD 2004, Generative CAD Systems Symposium, hosted by School of Architecture, CMU <http://www.cmu.edu/architecture/graduate/G-CAD/>
- 2003 Reviewer, EIA9: E-Activities and Intelligent Support in Design and the Built Environment, 9th EuroPIA International Conference, Istanbul, Turkey, <http://europia.org/eia9>
- Editorial Board, International Journal of Architectural Computing, Chief Editor, Andre Brown, MultiScience Publishing, UK http://www.multi-science.co.uk/gen_authors.htm
- Coordinating Editor, Issue #2, International Journal of Architectural Computing, MultiScience Publishing, UK http://www.multi-science.co.uk/gen_authors.htm (Co-editor with Nancy yen-wen Cheng).

- 2002 Advisor, Berkeley Institute of Design (BID), sponsored by CITRIS (Center for Information Technology Research in the Interest of Society) <http://www.citris.berkeley.edu/>, University of California, Berkeley.
- Editorial Board, International Journal of Architectural Computing, Chief Editor, Andre Brown, MultiScience Publishing, UK http://www.multi-science.co.uk/gen_authors.htm
- 2000 Advisory Board, INTERACT 2001, Eighth IFIP (International Federation for Information Processing) TC.13 International Conference on Human Computer Interactions, Human Interface Society and Information Processing Society of Japan, <http://www.interact2001.org/>
- 1999 - 2003 Executive Board, Space.City, Seattle's Art and Architecture Forum, a non-profit organization, 501-c (3), Executive Board, organize lecture events. <http://www.space-city.net/>
- 1999 – 2001 Award Officer for ACADIA (Association of Computer Aided Design in Architecture)
- 1998 Technology, Arts and Media Program Planning Committee, University of Colorado at Boulder, defined degree program, certificate program, under University's Total Learning Initiative
- Information Technology Strategy Planning Committee, University of Colorado at Boulder
- 1997 - 1999 Steering Committee for Association for Computer Aided Design in Architecture (ACADIA)

REFEREE

- 2011 Reviewer, Student Research Competition, CHI 2011, Conference on Human Factors in Computing Systems, <http://www.chi2011.org>
- Reviewer, Graduate Student Consortium, TEI – Tangible, Embedded and Embodied Interaction – <http://www.tei-conf.org/11/>
- Reviewer, Grant proposals for National Science Foundation, for REESE – research and Evaluation on Education in Science and Engineering, http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13667
- Reviewer, CEABM - 2011 International Conference on Civil Engineering, Architecture and Building Materials (CEABM 2011) (<http://www.ceabm.org>)
- Reviewer, CAAD Futures 2011 - <http://2011.caadfutures.org/> (4-8, July, 2011) Liege, Belgium
- 2010 Reviewer, for Association of Collegiate Schools of Architecture, ACSA conference, Hybridized Practice
- Reviewer, CHI 2010, Conference on Human Factors in Computing Systems <http://www.chi2010.org>
- Judge, Student Design Competition, CHI 2010, Conference on Human Factors in Computing Systems <http://www.chi2010.org>
- Reviewer, AAAI Conference on Artificial Intelligence (AAAI-10) Workshop on Visual Representation and Reasoning <http://dilab.gatech.edu/AAAI-10-VRR-Workshop/>
- Reviewer, Ubiquitous Computing 2010 <http://ubicomp2010.org/>
- Reviewer, Journal of Interacting with Computers (IWC) <http://ees.elsevier.com/iwc/>
- Reviewer, Tangible and Embedded Interaction (TEI'10), Media Lab. <http://tei-conf.org/10/>
- Reviewer, ASME, IDETC/CIE 2010, International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, <http://www.asmeconferences.org/idefc2010/>
- Reviewer, Journal of Artificial Intelligence for Engineering Design, Analysis and Manufacturing, AIEDAM, Cambridge University Press <http://journals.cambridge.org/aie>
- Reviewer, Grant Proposal Evaluation, for Austrian Science Fund (FWF) <http://www.fwf.ac.gt>

- Panel Reviewer, NSF IIS-CreativeIT (Information & Intelligent Systems - Human-Centered Computing)
- Reviewer, The 3rd IEEE International Conference on Digital Game and Intelligent Toy Enhanced Learning DIGITEL 2010, <http://digitel2010.cl.ncu.edu.tw/>
- Reviewer, IEEE Tabletops and Interactive Surfaces 2008, October 1-3, Amsterdam, the Netherlands, <http://www.ieeetabletop.org/>
- Reviewer, DCC – Fourth International Conference on Design Computing and Cognition, 12-14 July, Stuttgart, Germany, <http://mason.gmu.edu/~jgero/conferences/dcc10/>
- Reviewer, AAAI 2010 Spring Symposium, Cognitive Shape Processing <http://www.spatial-cognition.de/CSP/>
- Reviewer: International Journal of Design (IJDesign) – full journal paper review (full paper 14 pages) <http://www.ijdesign.org/>
- Reviewer: Computers & Graphics –<http://www.elsevier.com/locate/cag>
- Reviewer, Journal of Design Studies, Elsevier, Editor-in-Chief, Nigel Cross, <http://www.elsevier.com/locate/destud>
- 2009
- Reviewer, CHI 2009, Conference on Human Factors in Computing Systems, <http://www.chi2009.org>
- Reviewer, eCAADe (education and research in computer aided architectural design in Europe)
- Reviewer, CAADRIA, 14th Computer Aided Architectural Design Research In Asia conference
- Reviewer, Workshop on Sketch-Based Interfaces and Modeling, Aug 1-2, New Orleans, <http://sbim09.cse.wustl.edu/pages/callForPapers.php>
- Reviewer, Tangible and Embedded Interaction (TEI'09) Cambridge, UK <http://tei-conf.org/>
- Reviewer, Journal of Design Studies, Editor in Chief Nigel Cross, Elsevier
- Reviewer, International Journal of Design, Editor-in-Chief Lin-Lin Chen
- Reviewer, AAAI Spring Symposium on "Cognitive Shape Processing" March 22-24, 2010 at Stanford University, California <http://www.spatial-cognition.de/CSP/>
- Reviewer, Journal of Artificial Intelligence for Engineering Design, Analysis and Manufacturing, AIEDAM, Cambridge University Press <http://journals.cambridge.org/aie>
- Reviewer, CAAD Futures 2009, Montreal 6/17-19 http://www.arclab.umontreal.ca/CAADFutures09/CAAD_futures_2009_home.php
- Reviewer, IEA/AIE –International Conference on Industrial Engineering and other Applications of Applied Intelligent Systems <http://web.nutn.edu.tw/IEA-AIE2009/>
- Reviewer, SIGGRAPH 2009, <http://www.siggraph.org/s2009/>
- Reviewer, Austrian Science Fund <http://www.fwf.ac.at>
- Reviewer, Georgia National Science Foundation <http://www.gnsf.ge>
- 2008
- Reviewer, Journal of Computers & Graphics, Elsevier
- Reviewer, CHI 2008, Conference on Human Factors in Computing Systems <http://www.chi2008.org>
- Reviewer, eCAADe (education and research in computer aided architectural design in Europe), Sep 17-20, The College of Design Sciences, University College of Antwerpen <http://www.ecaade08.be/welcome.html>

Reviewer, CAADRIA, 13th Computer Aided Architectural Design Research In Asia conference: Chiang Mai, Thailand, 9-12 April, <http://www.caadria2008.org/>

Reviewer, Office of Research, National University of Singapore, <http://www.nus.edu.sg>

NSF Site Visit for Science of Learning Center program review

Reviewer, IADIS IHCI 2008, IADIS International Conference Interfaces and Human Computer Interaction 2008, Amsterdam, the Netherlands, July 25-27 <http://www.ihci-conf.org/>

Reviewer, Fifth Eurographics Eurographics Workshop on Sketch-Based Interfaces and Modeling, Annecy, France, June 11-13, <http://www.dgp.toronto.edu/%7Eekaran/sbim/> SRM_SBIM08

Reviewer, The 7th International Conference on Interaction Design & Children, June 11-13, Chicago, <http://idc08.northwestern.edu/>

Reviewer, DCC 08, THIRD INTERNATIONAL CONFERENCE ON DESIGN COMPUTING AND COGNITION (DCC'08 or DCC08), June 23-25, Georgia Institute of Technology, Atlanta, <http://mason.gmu.edu/~jgero/conferences/dcc08/>

Reviewer, Tangible and Embedded Interaction (TEI'08), Feb 18-20, Bonn, Germany <http://tei-conf.org/>

Reviewer, IEEE Tabletops and Interactive Surfaces 2008, October 1-3, Amsterdam, the Netherlands, <http://www.ieeetabletop.org/>

Reviewer, Discovery Grant Program Name RGPI, NSERC Natural Sciences and Engineering Research Council of Canada, <http://www.nserc-crsng.gc.ca/>

Reviewer, MOE IDM Programme, Educational Technology Division, Ministry of Education, Singapore, <http://www.moe.gov.sg>

Reviewer, Interactive Digital Media R&D Office Media Development Authority of Singapore, <http://www.nrf.gov.sg>

2007

Reviewer, CHI 2007, Conference on Human Factors in Computing Systems <http://www.chi2007.org>

Panel Reviewer, NSF, CISE and HER, ALT (Advanced Learning Technologies)

Panel Reviewer, NSF, IIS-HCC (Information & Intelligent Systems - Human-Centered Computing)

Reviewer, Design Studies, Elsevier, <http://www.elsevier.com/locate/destud>

Reviewer, TOCHI, ACM Transactions of Computer-Human Interaction, <http://www.acm.org/tochi/>

Reviewer, Journal of Engineering Design, Taylor and Francis, <http://www.tandf.co.uk/journals/titles/09544828.asp>

Reviewer, JEE- Journal of Engineering Education, American Society for Engineering Education <http://www.asee.org/publications/jee/>

Reviewer, CAAD Futures, 12th International Conference on Computer-Aided Architecture Design, July 11-13, Sydney, Australia, <http://ww.arch.usyd.edu.au/kcdc/conferences/cf07>

Reviewer, RED, Journal, Research in Engineering Design, Theory, Applications, and Concurrent Engineering, Springer Publication, <http://www.cs.cmu.edu/~sfinger/red/red.html>

Reviewer, eCAADe, Sep 26-29, Frankfurt, Germany, <http://www.fab.fh-wiesbaden.de/index.php?id=120>

Reviewer, CAADRIA, 12th CAADRIA conference: "Digitization and Globalization" in Nanjing, China, 19-22 April <http://www.caadria2007.org/>

- Reviewer, Tangible Play: Research and Design for Tangible and Tabletop Games, Workshop at the 2007 IUI - Intelligent User Interfaces Conference
- Reviewer, SigGradi - Iberoamerican Society of Graphic Design, Oct 23-25, Mexico, <http://www.sigradimexico.org>
- Reviewer, IJHCI, International Journal of Human-Computer Interaction, Lawrence Erlbaum Associates <http://www.erlbaum.com/>
- 2006
- Reviewer, eCAADe, Education and Research in Computer Aided Architectural Design in Europe, in Volos, Greece, September 6-9, <http://www.arch.uth.gr/ecaade06/>
- Reviewer, CSAAR, The Center for the Study of Architecture in the Arab Region, <http://www.csaar-center.org/conference/2006/index.htm>
- Reviewer, DCC 06, Design Computing and Cognition, July 10-12, Technical University of Eindhoven, Netherlands <http://www.arch.usyd.edu.au/kcdc/conferences/dcc06/>
- Reviewer, CAADRIA 2006, Computer Aided Architectural Design Research in Asia, March 31 – April 2, in Kumamoto, Japan, <http://www.caadria2006.org>
- Reviewer, JEE- Journal of Engineering Education, American Society for Engineering Education <http://www.asee.org/publications/jee/>
- Reviewer, Journal of Open House International, <http://www.openhouse-int.com>
- Reviewer, ICMI, International Conference of Multi-Modal Interactions, <http://www.acm.org/icmi/2006/>
- Reviewer, RED, Journal, Research in Engineering Design, Theory, Applications, and Concurrent Engineering, Springer Publication, <http://www.cs.cmu.edu/~sfinger/red/red.html>
- Reviewer, WIPTE 2006, First Workshop on the Impact of Pen-based Technology on Education, <http://www.itap.purdue.edu/ilt/conference/wipte/>
- Reviewer, CHI 2006, Conference on Human Factors in Computing Systems <http://www.chi2006.org>
- Reviewer, IJAC, International Journal of Architectural Computing <http://www.architecturalcomputing.org>
- 2005
- Reviewer, 2nd Eurographics Workshop on Sketch-Based Interfaces and Modeling, Trinity College Dublin, Ireland, August 28-29, <http://www.eg.org/sbm>
- Reviewer, Interaction Design and Children, June 8-10, University of Colorado at Boulder, Boulder, Colorado <http://www.cs.colorado.edu/conferences/idc2005/>
- Reviewer, The First Conference of the Future of the AEC Industry - Engaging the New Generation of Doctoral Students in U.S. Universities to be held in Georgia Institute of Technology, Atlanta, Georgia <http://www.thebfc.com/DoctoralProgram/Committees.htm>
- Reviewer, CAADRIA 2005, Computer Aided Architectural Design Research in Asia, New Delhi, India <http://www.caadria2005.org>
- 2004
- Reviewer, CAAD Futures 2005, to be held in Vienna University of Technology, Austria <http://info.tuwien.ac.at/cf2005/>
- Reviewer, ASCAAD, Arab Society for Computer Aided Architectural Design, First International Conference on Computer Aided Architectural Design, 22-24 February 2005 - King Fahad University of Petroleum & Minerals, Dhahran, Saudi Arabia, <http://www.ascaad.org/conference/2004/>
- Reviewer, International Journal of Architectural Computing <http://www.architecturalcomputing.org>
- Reviewer, ITCon, Electronic Journal of Information Technology in Construction <http://www.itcon.org/>

- Reviewer, CAADRIA 2004, Computer Aided Architectural Design Research in Asia, Yonsei University, South Korea, <http://www.caadria2004.org/>
- Reviewer, DCC 2004, First International Conference on Design Computing and Cognition, MIT, Cambridge, <http://www.arch.usyd.edu.au/kcdc/conferences/dcc04/>
- Reviewer, G-CAD 2004, Generative CAD Systems Symposium, hosted by School of Architecture, CMU <http://www.cmu.edu/architecture/graduate/G-CAD/>
- 2003 Reviewer, EIA9: E-Activities and Intelligent Support in Design and the Built Environment, 9th EuroPIA International Conference, Istanbul, Turkey, <http://europia.org/eia9>
- Reviewer, Eurographics 2003, European Association for Computer Graphics, Granada, Spain, <http://giig.ugr.es/eg03/eg2003.html>
- Reviewer, Architectural Press, Commissioning Editor, Alison Yates, Elsevier Limited, Oxford, UK, <http://www.architecturalpress.com>
- Reviewer, Journal AIEDAM (Artificial Intelligence for Engineering Design, Analysis, and Manufacturing), Cambridge University Press <http://www.cs.wpi.edu/~aiedam/>
- Reviewer, INTERACT 2003, 9th IFIP TC13 International Conference of Human-Computer Interaction, ETH Zurich, <http://www.interact2003.org/>
- 2002 Panel Reviewer, NSF, Engineering division, DMII (Design, Manufacture, and Industrial Innovation)
- Reviewer, CAAD Futures 2003, Computer Aided Architectural Design Futures Foundation <http://www.caadfutures.arch.tue.nl/>
- Panel Reviewer, NSF, DUE (Division of Undergraduate Education), Curriculum and Laboratory Improvement - Educational Materials Development (CCLI-EMD)
- Reviewer, UIST 2002, User Interface and Software Technology, ACM (Association of Computing Machinery) <http://www.acm.org/uist/uist2002/>
- Reviewer, ACADIA 2002, Association of Computer Aided Design in Architecture
- 2001 Reviewer, Journal AIEDAM (Artificial Intelligence for Engineering Design, Analysis, and Manufacturing), Cambridge University Press <http://www.cs.wpi.edu/~aiedam/>
- Reviewer, IJHCS, International Journal of Human Computer Studies, Academic Press
- Reviewer, INTERACT 2001, Human Interface Society and Information Processing Society of Japan
- Reviewer, ACADIA 2001, Association of Computer Aided Design in Architecture
- 2000 Reviewer, Diagrams 2000, An International Conference on the Theory and Application of Diagrams (Chairs, Michael Anderson, Peter Cheng, Volker Haarslev, Lecture Notes in Artificial Intelligence, Springer)
- Reviewer, ACADIA 2000, Association of Computer Aided Design in Architecture, held at Catholic University, Washington, D.C. USA
- Reviewer, CAADRIA 2000, Computer Aided Architectural Design Research in Asia
- Reviewer, Digital Media Session, for ACSA (American Collegiate Schools of Architecture) Annual Conference 2000
- 1998 Reviewer, ACADIA conference, Association of Computer Aided Design in Architecture, held at University of Laval, in Qubec City, Canada
- 1996 Reviewer, Editorial Committee for Hong Kong Papers in Design and Development #33

ACTIVITIES, SERVICE TO THE PROFESSIONCOMMUNITY, AND PUBLIC

- 2010 - 2012 Enabling Technology Open House, Co-Host, Happy Healthy Home – Ambient Intelligence and Innovations, Georgia Tech, April 27, 2010, April 22, 2011, April 17, 2012, <http://www.healatgt.org/>
- 2009 Onsite Health Center of the Future, VIP Open House, 12/3, co-host Comprehensive Health Services
- Healthy Environment and Active Lifestyle Open House, 4/21, co-host with Aware Home Research Institute, Wireless RERC, Georgia Tech <http://www.healatgt.org/> <http://www.coop.gatech.edu/news/event.php?id=4199>
- 2008 Co-Host, Hill-Rom IT Solutions, Mike Gallup, Kristy.Decicco, 4/15
- Host, Joyce Bromberg, Director of Research, Workspace Futures, Steelcase 2/8
- Co-Host, Ed Ponataski, Senior Partner with Martin-Blanck and Associates, Senior Facilities Consultant Presidential Task Force to Improve Veterans Health Care, and Clay Boenecke, Chief of the Capital Planning Branch for the TRICARE Management Activity, Military Health Systems, 1/15
- 2007 Co-Host, Sara Marberry, Natali Zensius, Center of Health Design 4/18
- 2006 Advisory Board, “Digital Sketching in the Design Studio” Educational Technology Curricular and Infrastructure Redesign Grant, University of Oregon, PI: Nancy Yen-wen Cheng
- Host, Physical Computing Workshop, Dec 10-12. Ali Mazalek and Synlab, Mark D Gross and CoDe Lab. <http://dcom.arch.gatech.edu/wiki/index.php?title=Workshop>
- 2003 Participant, “Development of an Architectural Co-Design Space’ Virtual Reality Environment” [July 11, 2003 – November 30, 2004], PIs: Kwangyon Wohn, Virtual Reality Research Center, KAIST, Korea, Jin Won Choi, Yonsei University, Korea.
- Participant, “Collaborative Product Conceptualisation Environment” [proposal submitted August 2003], Pis: Been-Lirn Duh, Nanyang Technological University, Singapore (NTU), and Singapore Institute of Manufacturing Technology (SIM Tech).
- Host, Karrie Karahalios visit, August 27, Social Media Group, MIT Meidia Lab.
- Host, Rahul Sukthankar visit, August 21, Intel Research Pittsburgh and CMU School of Computer Science
- Host, Eugene Earlie visit, April 16, Research Engineer, Intel's Strategic Cad Lab in Shrewsbury, Massachusetts.
- Host, Andre diSessa, Walker-Ames lecturer visit, Design Machine Group demo, February 19
- 2002 Co-host, Eric Owen Moss lecture, "Architecture is a Prayer for Order," at Seattle Art Museum, October 14, for Space.City
- 2001 Presenter, Design Machine Group, “Recent Work”, at Seattle Art Museum, November 5, co-sponsored by Space.City: Seattle’s Art and Architecture Forum
- Host, Greg Lynn lecture, “On the Surface”, November 6, at Benaroya Hall, Seattle, co-sponsored by Space.City and University of Washington.
- Co-host, John Stamets lecture, “Museums as Build”, November 12, at Seattle Art Museum, for Space.City.
- Co-host, Shigeru Ban lecture, “Beyond Paper and Curtain: Works and Humanitarian Activities”, December 6, Benaroya Hall, for Space.City.
- Co-host, Khaldoun Fansa, consulting architect, expert in the Old City of Aleppo and Restoration projects Management

- Host, National AEC Information Technology and Information Systems Professionals Roundtable, for Design Machine Group, Dept. of Architecture, University of Washington
- 2000 City of Seattle, King County, and Sound Transit Joint Agency Northgate Technical Workshop
- Central City Design Forum, CityDesign, DCLU, City of Seattle
- Co-host, Bill Zahner lecture, "The Gehry Metals", at Seattle Art Museum, April 18, for Space.City
- Co-host, Jesse Reiser lecture, "Recent Work" at the Henry Art Gallery, February 29, 2000, for Space.City.
- Co-host, Daniel Libeskind lecture, "Jewish Museum and Recent Work" at Benaroya Hall, February 18, 2000, Space.City
- Co-host, A Town Hall Meeting, panel discussion at the Seattle Public Library, with Mayor Paul Schell, John Rahaim, Peter Miller, Gordon Walker, January 20, 2000, Space.City.
- 2000 - 2002 Lakeview North Condominiums, Home Owner Association, elected Officer
- 1999 - 2002 Design Computing Research Lab Lunch Colloquium coordinator
(list of talks at <http://depts.washington.edu/lablunch>)
- 1992 - 1994 President, Georgia Tech Graduate Student Resident Hall Council: Fitten Hall President
- Newsletter bilingual editor & Graduate representative, Georgia Tech Chinese Student Association
- 1990 - 1992 Boston Society of Architects: Affiliate member
- Ashdown Institute (Chinese Intercollegiate Architects Association): Secretary, organize lecture events, applied for non-profit organization
- Harvard Republic of China Student Club: Secretary, publication, and lecturer for evening lecture series
- Harvard University Taiwan Study Club: member
- Cambridge Chinese Chorus Society (CCCS): founder, president (of one term), soloist, chorus member, poster and graphic designer
- 1988 - 1989 Research Assistant Association, National Taiwan University, Graduate Institute of Building and Planning (labor union), Co-founder, member, and President for one term
- 1983 - 1988 National Cheng Kung University
- Department of Architecture: Vice leader of class, chorus section leader, photographer of the Graduate Year Book Committee, chief editor of N. C. K. U. Architecture, secretary of Students Association
- Young Women Association: member
- Orchestra Club and Art Club: member
- Modern Drama Club: vice leader, managing & directing
- Youth Visiting Mission Corps: member

COMMITTEE SERVICE (UNIVERSITY)

- 2006 - present Information technology Committee, Diversity Committee, Search Committee for City and Regional Planning (2006), College of Architecture, Advisor, for Asian Student Organization, South East Student Engineers, Georgia Institute of Technology
- 2004 - 2005 Graduate Program Committee, Computing Committee, Carnegie Mellon University, School of Architecture

- 2004 Curriculum Committee, Task Force for Accreditation Review (TFAR), Department of Architecture
- 2004 - 2003 Faculty Senate, representing Faculty Group 2, Voting Unit #V16, University of Washington
- 2004 - 2003 Honors Council, University Honors Program, University of Washington
- 2004 - 2002 Program Advisor, Master of Science, in Design Computing, Architecture Department Committee
- 2003 Strategic Planning Committee, Department of Architecture
- Graduate School Representative (GSR), doctoral supervisory committee, for Eric Wiltshire, Music (exam, December 2003), University Committee
- 2002 Architecture Department Chair recommendation committee, College Committee
- Graduate School Representative (GSR), doctoral supervisory committee, for Diana Mae Greenlee, Anthropology (defense, May 10, 2002), University Committee
- Graduate School Representative (GSR), doctoral supervisory committee, for Toshie Ueda, Music (exam, May 29, 2002). University Committee
- 2001 - 2002 TPMR (Tenure, Promotion, Merit Review) Committee, Architecture Department
- Steering Committee, for "Design Education of the Future" - implementing Architecture Hall information infrastructure, from Tools for Transformation grant, Architecture Department
- Planning Committee, College wide Ph.D., for Design Computing, Digital Processes and Practices
- College Computing Committee
- 2001 Financial Aid and Scholarship Committee, Department of Architecture
- 2000 Graduate School Representative (GSR), doctoral supervisory committee, for Raydell Bradley, School of Music (graduated May 2000).
- 1999 - 2002 Information Technology group, Professional Council Advisory for Architecture Department
- Department Computing Committee, Architecture Department, University of Washington
- Thesis Proposal Review Committee, Architecture Department, University of Washington
- Speakers Bureau, UW outreach to provide the citizens of Washington State with outstanding programs in teaching, research, and service to promote community access to the broad range of information and knowledge available at the University
- 1999 - 2001 Graduate Admission Committee, Architecture Department, University of Washington
- 1993 Faculty Search Committee, College of Architecture, Industrial Design, Georgia Institute of Technology

PROFESSIONAL ORGANIZATIONS

- AAUP American Association of University Professors
- AAAI Association for the Advancement of Artificial Intelligence
- ACADIA Association for Computer Aided Design in Architecture
- eCAADe Education in Computer Aided Architectural Design in Europe

CAADRIA	Association for Computer Aided Architecture Design Research in Asia
ACM	Association for Computing Machinery
SIGCHI	ACM Special Interest Group in Human Computer Interaction
SIGART	ACM Special Interest Group in Artificial Intelligence
IEEE	Institute of Electrical and Electronics Engineers
AIA	American Institute of Architects
ISLS	International Society of the Learning Sciences
BSA	Boston Society of Architects
SPACE.CITY	Seattle's Art and Architecture Forum
AAUW	American Association of University Women
NAAAP	National Association of Asian American Professionals
ASCE	American Society of Civil Engineers Certificate for 10 Professional Development Hours (PDH)
CVDE	Collaborative Virtual Design Environments http://kwetal.ms.mff.cuni.cz/~ernst/cvde/cvde_hm.html

CITATIONS

Google Scholar Search (Yi-Luen Do) yields 1637 citations (Oct 2012) 1067 citations (May 2011) compared to 413 references (Feb 20, 2011) compared to 354 references (Feb 6, 2010), compared to 294 references (May 3, 2009), and 255 references (accessed April 29, 2008)

<http://scholar.google.com/scholar?q=Ellen+Yi-Luen+Do>

Google Search yields 75,600 references (Oct 2012), 6960 references (Feb 20, 2011), compared 6300 references (Feb 6, 2010), compared to 5750 references (accessed May 3, 2009), compared to 3300 references (accessed April 29, 2008).

<http://www.google.com/search?q=Ellen+Yi-Luen+Do&hl=en&client=firefox-a&channel=s&rls=org.mozilla:en-US:official&hs=aZd&filter=0>

Google Scholar search with for example the title "Thinking with Diagrams in Architectural Design" and name "Ellen Yi-Luen Do" yields 10 results (Feb 6, 2010) compared to 8 results (May 3, 2009)

<http://scholar.google.com/scholar?q=%22thinking%20with%20diagrams%20in%20architectural%20design%22%20%22ellen%20yi-luen%20do%22&hl=en&um=1&ie=UTF-8&sa=N&tab=ws>

DBLP shows 75 indexed paper (Oct 2012), compared to 51 indexed paper (May 2011), compared to 46 indexed paper (Feb 16), compared to 20 indexed papers (Feb 6, 2010) compared to 18 (May 3, 2009) http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/d/Do:Ellen_Yi=Luen.html

ACM Digital Library profile shows 59 publication count with 252 citations and 6,712 downloads (Oct 2012), compared to 42 publication count with 219 citations and 2,285 downloads (Feb 20, 2011), compared to 32 publication count with 147 citations and 1,719 downloads (Feb 6, 2010) and compared to 19 papers with 107 citations and 1,172 downloads (May 3, 2009) http://portal.acm.org/author_page.cfm?id=81100609985&coll=GUIDE&dl=GUIDE&CFID=34889812&CFTOKEN=92517544

Microsoft Academic Search (Ellen Yi-Luen Do) shows 48 publications, 381 citations, G-Index of 19, and H-Index of 10. The subjects of interests are Human-Computer Interaction, Artificial Intelligence and Graphics, collaborated with 58 co-authors from 1994 to 2010, cited by 528 authors (May 2011) comparing to 40 publication and 381 citations (Feb 20, 2011), collaborated with 38 co-authors. <http://academic.research.microsoft.com/Author/12132424/ellen-yi-luen-do>

Research ID shows 256 papers with 231 citations (Oct 2012), compared to 129 papers (41 with index info), 73 citation (May 2011), <http://www.researcherid.com/rid/B-3621-2009>

Metapress shows contribution subject –Built Environment (6), Architectural Theory (6), Computer Aided Architectural Design (6), Computer Science (6), Artificial Intelligence (incl. Robotics) (5), Computer Communication Networks (5), Algorithm Analysis and Problem Complexity (5), Computation by Abstract Devices (5), Software Engineering (5), Database Management (5), Data Encryption (5), <http://www.metapress.com/content?k=author:%28Ellen+Yi-Luen+Do%29>

ISI Web of Knowledge search (and cited reference search) of Do EYL yields 41 papers, 131 citations (May 2011) compared to 12 articles and 104 citations (Feb 20, 2011), compared to 10 articles and 41 citations (Feb 6, 2010), compared to 7 articles and 34 citations (May 3, 2009)
http://apps.isiknowledge.com.www.library.gatech.edu:2048/summary.do?qid=3&product=UA&SID=1AAjkLp758pLeAmdgEp&search_mode=GeneralSearch

CuminCAD search of Do Ellen shows 34 articles (Feb 6, 2010)
<http://cumincad.scix.net/cgi-bin/works/Home>

Google Citation Gadget - Citations for "Yi Luen Do": 2966, Cited Publications: 91, H-Index: 20 (Oct 2012)
 Google Citation Gadget - Citations for "Yi Luen Do": 1073, Cited Publications: 86, H-Index: 16 (May 2011)
 Google Citation Gadget - Citations for "Ellen Do": 1044, Cited Publications: 78, H-Index: 15 (Feb 2011)
<http://code.google.com/p/citations-gadget/>

The table below shows – top 10 most cited papers according to Google Scholar author search (May 2011) - <http://scholar.google.com/scholar?hl=en&q=author%3AYi-Luen+author%3ADo>

#	Paper Title	Year	Cited	DOI (Digital Object Identifier)
1	Ambiguous intentions	1996	236	doi> 10.1145/237091.237119
2	Demonstrating the Electronic Cocktail Napkin	1996	67	doi> 10.1145/257089.257092
3	Drawing on the back of an Envelope	2000	62	doi> 10.1016/S0097-8493(00)00087-X
4	Navigational Blocks	2002	55	doi> 10.1145/502716.502725
5	Annotating and Sketching on 3D web models	2002	53	doi> 10.1145/502716.502733
6	Intentions in and relations among design drawings	2000	43	doi> 10.1016/S0142-694X(00)00020-X
7	The Right Tool at the Right Time – Investigation of Freehand Drawing	1998	36	http://smartech.gatech.edu/handle/1853/3482
8	Collaboration and Coordination in Architectural Design	1998	30	doi> 10.1016/S0926-5805(98)00055-7
9	What's in a Diagram that a Computer Should Understand	1995	32	http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.103.6887
10	Drawing as a Means to Design Reasoning	1996	28	http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.86.753