

MYUNGJE WOO

Center for Quality Growth and Regional Development (CQGRD)
College of Architecture
Georgia Institute of Technology
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- EDUCATION** Ph.D. in City and Regional Planning, The Ohio State University, December 2007
Specialization: Growth management, regional planning, urban economics, quantitative methods, and urban spatial analysis
(Dissertation: Impacts of Urban Containment Policies on Urban Growth and Structure)
- Master's Degree in City and Regional Planning, The Ohio State University, 2007
- Master's Degree in Urban Engineering, The University of Seoul, Seoul, South Korea, 1999
(Thesis: A Study on the System of Centers and Their Functional Differentiation in Seoul)
- Bachelor's Degree in Urban Engineering, The University of Seoul, Seoul, South Korea, 1997

CURRENT FIELD OF INTEREST

Megaregions, urban spatial structure, spatial analysis, growth management, regional and megaregional planning, transportation planning and finance, and econometrics

EMPLOYMENT HISTORY

- April 2012- present Assistant Director, Center for Quality Growth and Regional Development, College of Architecture, Georgia Institute of Technology
- March 2012 - present Adjunct Professor, Department of Energy and Environmental System Engineering, University of Seoul, Seoul, South Korea.
- December 2007 - present Research Scientist, Center for Quality Growth and Regional Development, College of Architecture, Georgia Institute of Technology
- May 2003 – September 2007 Graduate Research Associate, The Ohio Supercomputer Center, The Ohio State University.

- Responsibilities: Conducting research with GIS and statistical software, developing Internet-based Geographic Information System using ArcIMS, managing and analyzing GIS database, providing faculty, staff, and students with technical assistance, and writing reports.
- September 2002 – December 2002 Graduate Research Associate, Department of City and Regional Planning, The Ohio State University.
Research Topic: Commuting flows and the hierarchy of employment centers in Ohio metropolitan areas.
- March 1999 – July 2001 Researcher, Seoul Development Institute, Seoul, South Korea.
Responsibilities: Analyzing socio-economic data, overseeing research assistants, organizing public meeting and presentations, and writing reports.
- March 1997- February 1999 Graduate Research Associate, Metropolitan Research Institute, The University of Seoul, Seoul, South Korea.
- March 1996- February 1997 Research Assistant, Department of Urban Engineering, The University of Seoul, Seoul, South Korea.

MEMBERSHIP IN PROFESSIONAL SOCIETIES

American Planning Association
Association of Collegiate Schools of Planning
Association of American Geographers

PUBLICATIONS

A. JOURNAL PAPERS (refereed)

Catherine L. Ross and **Myungje Woo**. 2012. The identification and Assessment of Potential High-Speed Rail (HSR) Routes from a Megaregion Perspective. *Transportation Research Record: Journal of the Transportation Research Board*, accepted for publication.

Myungje Woo and Hazel A. Morrow-Jones. 2011. Main Factors Associated with Homeowners' Intentions to Move. *International Journal of Urban Science*, 15(3), pp. 161-186.

Myungje Woo and Jean-Michel Guldmann. 2011. Impacts of Urban Containment Policies on the Spatial Structure of U.S. Metropolitan Areas. *Urban Studies*, 48(16), pp. 3504-3529.

Catherine L. Ross, Bruce Stiftel, **Myungje Woo**, and Arthi Rao. Fall 2010/Winter 2011. Measuring Regional Transport Sustainability: An Exploration. *The Urban Lawyer*, Vol. 42(4)/43(1), pp. 67-89.

Jin Nam, **Myungje Woo**, and Catherine L. Ross. 2010. Financing Tools for Urban Revitalization Projects: Analysis of U.S. Tax Increment Financing (TIF) Statutes and

Case Law. *Journal of the Korea Planners Association* Vol. 45(7), pp. 47-65. (in Korean)

Hongjoo Kim, **Myungje Woo**, and Inhee Kim. 2009. A Study on the Policies for Military Base Relocation and Redevelopment Focusing on the Cases in the United States, Germany, Japan, and Korea. *The Korean Association for Policy Studies* Vol. 18(4). pp. 401-429. (in Korean)

Changseok Kim and **Myungje Woo**. 2000. A Study on the Hierarchy of Centers and Their Characteristics in Seoul. *Journal of the Korea Planners Association* Vol. 35(1), pp. 17-30. (in Korean)

B. SUBMITTED JOURNAL PAPERS

Myungje Woo, Catherine L. Ross, and Thomas D. Boston. 2011. Do Megaregions Produce Greater Regional Convergence or Divergence: Implications for Spatial Planning and Infrastructure Investment. *Journal of Urban Planning and Development*.

Catherine L. Ross and **Myungje Woo**. 2011. Megaregions and Regional Sustainability. *International Journal of Urban Science*.

C. CHAPTERS IN BOOK

Catherine L. Ross and **Myungje Woo**. 2009. Identifying Megaregions in the US: Implications for Infrastructure Investment, In Catherine L. Ross (Ed.), *Megaregions: Planning for Global Competitiveness*, pp. 53-80, Island Press.

D. PUBLISHED PAPERS (non-refereed)

Catherine L. Ross and **Myungje Woo**. 2011. Megaregions and Mobility. *The Bridge*, Vol. 41(1), pp. 27-34. The National Academy of Science.
<http://www.nae.edu/Publications/Bridge/43180/43293.aspx>

Catherine L. Ross and **Myungje Woo**. 2011. Megaregions and Regional Sustainability. *The Reform of Urban Planning System and The International Comparison of District Unit Planning*, proceedings of the Seoul Metropolitan Fora 2011, pp. 9-33.

Hyunsook Chun and **Myungje Woo**. 2010. Green Housing and Community Policies in the United States. *Policy Briefs* 270, pp.1-8. Korea Research Institute for Human Settlements. (in Korean)

E. PROFESSIONAL REPORTS

Catherine L. Ross, Michael Elliott, Sarah McCord Smith, **Myungje Woo**, John Kent, and Margaret Lilly. 2011. Estimating the Safety Benefits of Context Sensitive Solutions (CSS), prepared for Georgia Department of Transportation (GDOT).

Catherine L. Ross, **Myungje Woo**, Harry West, Michael Meyer, Adjo Amekudzi, Michael Elliott, John Leonard II, Sara Cox, Anna Harkness, Arthi Rao, and Bianca Smith. 2011. Megaregions: Literature Review of Organizational Structures and Finance of Multi-jurisdictional Initiatives and the Implications for Megaregion Transportation Planning in the U.S., prepared for the U.S. Department of Transportation (US DOT),

Federal Highway Administration (FHWA).

Catherine L. Ross, **Myungje Woo**, Michael Elliott, Thomas “Danny” Boston, and Sarah Cox. 2011. Impacts of Regional Special-Purpose Local-Option Sales Taxes (SPLOSTs) on County Infrastructure, prepared for Georgia Department of Transportation (GDOT).

Mike Meyer, Catherine L. Ross, **Myungje Woo**, Jason Barringer, and Michelle Marcus. 2010. Propensity to Vote for Transportation and School Taxes: An Analysis of Public Referenda in Georgia, prepared for Georgia Department of Transportation (GDOT).

Catherine L. Ross, **Myungje Woo**, Jason Barringer, Jiawen Yang, Amy Danner, Harry West, Michelle Marcus, Adjo Amekudzi, and Mike Meyer. 2009. Megaregions: Visualization of Defining Megaregions and Policy Implications for Passenger and Freight Movement, prepared for the U.S. Department of Transportation (US DOT), Federal Highway Administration (FHWA).

Catherine L. Ross, **Myungje Woo**, Jason Barringer, Jiawen Yang, Amy Danner, Harry West, Adjo Amekudzi, Mike Meyer, and Alia Awaad. 2009. Megaregions: Passenger and Freight Transportation Framework, prepared for the U.S. Department of Transportation (US DOT), Federal Highway Administration (FHWA).

Catherine L. Ross, **Myungje Woo**, Jason Barringer, Jiawen Yang, Amy Danner, Harry West, Adjo Amekudzi, and Mike Meyer. 2009. Megaregions: Delineating Existing and Emerging Megaregions Throughout The United States, prepared for the U.S. Department of Transportation (US DOT), Federal Highway Administration (FHWA).

Catherine L. Ross, **Myungje Woo**, Jason Barringer, Amy Danner, and Harley Etienne. 2008. Atlanta BeltLine Decision Support Tool: Strategic Planning Session, Prepared for the BeltLine Tax Allocation District Advisory Committee (TADAC).

Catherine L. Ross, **Myungje Woo**, Jason Barringer, Jiawen Yang, Jessica Doyle, Harry West, Adjo Amekudzi, and Mike Meyer. 2008. Megaregions: Proceedings of the Megaregions and Transportation Symposium and Structured Telephone Interview Summaries, prepared for the U.S. Department of Transportation (US DOT), Federal Highway Administration (FHWA).

Catherine L. Ross, Jason Barringer, Amy Danner, **Myungje Woo**, and Molly Allen. 2008. Hospitals and Community Health HIA: A Study of Localized Health Impacts of Hospitals, prepared for the Robert Wood Johnson Foundation (RWJF).

Joy Wilkins, Catherine L. Ross, Jason Barringer, Karen. Leone de Nie, J. Chernock, B. Garvey, P. Jones, I. Kharoujik, D. King, R. Lann, B. Riall, P. Tucker, **Myungje Woo**, Molly Allen, Elise Barrella, Jason Combs, and K. Lambert. 2008. Preparing for the Future in Troup County, Georgia: Recommendation for a Strategic Plan for Sustainable Development, prepared for Troup County and the Cities of LaGrange, West Point, and Hogansville, Georgia.

Catherine L. Ross, Jason Barringer, Amy Danner, **Myungje Woo**, Jessica Doyle, Molly Allen, and Elise Barrella. 2008. Preparing for the Future in Troup County, Georgia: A Spatial Strategy for Sustainability (Assessment report), prepared for Troup County and

the Cities of LaGrange, West Point, and Hogansville, Georgia.

Catherine L. Ross, **Myungje Woo**, Jason Barringer, Jiawen Yang, Jessica Doyle, Harry West, Adjo Amekudzi, and Mike Meyer. 2008. Megaregions: Literature Review of the Implications for U.S. Infrastructure Investment and Transportation Planning, prepared for the U.S. Department of Transportation (US DOT), Federal Highway Administration (FHWA), www.fhwa.dot.gov/planning/megaregions.pdf.

Steven I. Gordon, Denis Walsh, Prasad Calyam, and **Myungje Woo**. 2006. ECOM-Ohio Study, prepared for Ohio Department of Development.

F. OTHER PROFESSIONAL REPORTS (IN KOREAN)

Myungje Woo and Kyungsoon Wang. 2012. Transferable Development Rights (TDR) in the U.S., prepared for University of Seoul, Seoul, South Korea.

Bumhyun Lee, Kuentae Kim, **Myungje Woo**, and Kyungsoon Wang. 2011. Developing a Waterfront Quality Scorecard for Waterfront Community Projects in Korea, Korea Research Institute for Human Settlements (KRIHS).

Myungje Woo and Kyungsoon Wang. 2011. Implications for Developing Waterfront Community Rating Systems in Korea Through Analysis of Waterfront Development Policies and Rating Systems in the U.S., prepared for Korea Research Institute for Human Settlements (KRIHS), Kyunggi, South Korea.

Kyungsoon Wang and **Myungje Woo**. 2010. The Trend of Low-Income Housing Policies and Housing Safety Net in the U.S., prepared for Korea Research Institute for Human Settlements (KRIHS), Kyunggi, South Korea.

Myungje Woo. 2010. Development Finance Tools in the United States, prepared for the University of Seoul, Seoul, South Korea.

Myungje Woo. 2009. Growth Management Policies in The United States, prepared for the University of Seoul, Seoul, South Korea.

Myungje Woo and Kyungsoon Wang. 2009. Policies and Case Studies on The Green Community Development in The United States, prepared for Korea Research Institute for Human Settlements, Kyunggi, South Korea; In Hyunsook Chun, Soonseok Bae, and Sungje Jun, *Green Growth and National Territorial Development: Housing Sector*, Korea Research Institute for Human Settlements 2009-56.

Myungje Woo and Kyungsoon Wang. 2009. A Case Study on The Atlantic Station Redevelopment in The United States, prepared for the University of Seoul, Seoul, South Korea.

Myungje Woo, Kyungsoon Wang, and Gyungwon Kim. 2008. The Base Redevelopment and Its Procedure in The United States, prepared for the Korea National Housing Corporation, Sunnam, South Korea.

Youngduk Kwon, Heejung Lee, Namjong Jang, and **Myungje Woo**. 2001. A Study on the Guidelines for the Classification of the Residential Zoning System in Seoul,

prepared for the Seoul Metropolitan Government. Seoul Development Institute.

Youngduk Kwon, Heejung Lee, Namjong Jang, and **Myungje Woo**. 2001. A Manual of Classifying Residential Zones for Local Planners, prepared for the Seoul Metropolitan Government. Seoul Development Institute.

Heeyun Jung, **Myungje Woo**, Seseon Kim, Sanghee Choi, and Yun. 2000. Strategic Improvement Plan for Semi-Industrial Zones (focused on brownfields) in Seoul, prepared for the Seoul Metropolitan Government. Seoul Development Institute.

Changseok Kim, **Myungje Woo**, and Samsu Lee. 1999. A Study on the Population Impacts of the Sang-am Residential Development in Seoul, 1999, Metropolitan Research Institute.

Changseok Kim, Jin Nam, and **Myungje Woo**, Jaegil Lee, Younghwa Choi, Sejin Kang. 1998. A Study on the Population Impacts of the Kim-po Residential Development in Kyunggi, Metropolitan Research Institute, University of Seoul.

Changseok Kim, **Myungje Woo**, and Jungmo Jang. 1998. Market Analysis for the Detailed District Planning of Kundae District in Seoul, prepared for Kwangjin-gu, Seoul, Metropolitan Research Institute, University of Seoul.

Changseok Kim, Jin Nam, and **Myungje Woo**, Jaegil Lee, Younghwa Choi, Sejin Kang. 1997. A Study on the Locational Determination for the Cultural Center in Kangnam-gu, Seoul, prepared for Kangnam-gu, Seoul, Metropolitan Research Institute, University of Seoul.

Changseok Kim, Jin Nam, Musik Park, **Myungje Woo**, and Younghwa Choi. 1996. A Study on the Population Impacts of the Development of Suwon Industrial Park in Kyunggi, Metropolitan Research Institute, University of Seoul.

Changseok Kim, Jin Nam, **Myungje Woo**, and Younghwa Choi. 1996. A Study on the Population Impacts of the Development of Song-do Resort Park in Incheon, prepared for Daewoo, Inc., Metropolitan Research Institute, University of Seoul.

CONFERENCES AND SYMPOSIA

Myungje Woo. 2012. "Impact of Regional Land Use Policies on Physical Activity and Public Health", presented at the Planning for Green Cities: Atlanta and Seoul, University of Seoul, Seoul, South Korea.

Catherine L. Ross and **Myungje Woo**. 2012. "The identification and Assessment of Potential High-Speed Rail (HSR) Routes from a Megaregion Perspective", presented at the 2012 Annual Meeting of Transportation Research Board (TRB). Washington D.C., USA.

Catherine L. Ross and **Myungje Woo**. October, 2011. "Megaregions and Regional Sustainability", presented at Seoul Metropolitan Fora 2011, Seoul, South Korea.

Catherine L. Ross, Arthi Rao, Michelle Marcus, and **Myungje Woo**. October, 2011. "Health Impact Assessment at Different Geographic Scales: A Comparative Analysis",

presented at the 2011 Association of Collegiate Schools of Planning (ACSP) Conference. Salt Lake City, Utah, USA.

Myungje Woo, Catherine L. Ross, and Thomas “Danny” Boston. October, 2011. “Megaregions: Convergence and Divergence and Implications for Spatial Planning and Infrastructure Investment”, presented at the 2011 Association of Collegiate Schools of Planning (ACSP) Conference. Salt Lake City, Utah, USA.

Evert Meijers, Catherine L. Ross, and **Myungje Woo**. June, 2011. “Functional VS. Sectoral Specializations in U.S. Megaregions”, presented at the Third Global Conference on Economic Geography 2011: Space, Economy, and Environment, Seoul, South Korea.

Myungje Woo and Catherine L. Ross. October, 2010. “A Matter of Scale: Megaregions and High Speed Rail in The U.S.”, presented at the 2010 Association of Collegiate Schools of Planning (ACSP) Conference. Minneapolis, Minnesota, USA.

Catherine L. Ross and **Myungje Woo**. August, 2010. “Functional Relationships of Megaregions and Their Implications for Transportation Infrastructure”, presented at 9th Symposium of the International Urban Planning and Environment Association, Guangzhou, China.

Catherine L. Ross, Bruce Stiffler, **Myungje Woo**, and Alia Awaad. March, 2010. “Sustainability Metrics for Urban Infrastructure Systems”, presented at Festschrift Symposium in Honor of Julian Juergensmeyer. Georgia State University, Atlanta, Georgia, USA.

Myungje Woo, Catherine L. Ross, and Jason Barringer. October, 2009. “The Physical and Functional Delineation of Megaregions,” presented at the 2009 Association of Collegiate Schools of Planning (ACSP) Conference. Crystal City, Virginia, USA.

Catherine L. Ross, **Myungje Woo**, and Gyungwon Kim. October, 2009. “The Megaregions and Sustainability: An Exploration,” presented at the 2009 Association of Collegiate Schools of Planning (ACSP) Conference. Crystal City, Virginia, USA.

Myungje Woo. October, 2008. “Multi Criteria Decision Analysis (MCDA)”, presented at the Atlanta BeltLine Decision Support Tool Strategic Planning Session, sponsored for the BeltLine Tax Allocation District Advisory Committee (TADAC), Atlanta, Georgia.

Myungje Woo and Jason Barringer. October, 2008. “Overview of the Decision Support Tool”, presented at the Atlanta BeltLine Decision Support Tool Strategic Planning Session, sponsored for the BeltLine Tax Allocation District Advisory Committee (TADAC), Atlanta, Georgia.

Myungje Woo, Catherine L. Ross, Jessica Doyle, Jason Barringer, and Harry West. July, 2008. “Identifying Megaregions in the US: Implications for Infrastructure Investment,” presented at the 2008 Joint ACSP-AESOP Conference. Chicago, Illinois, USA.

Catherine L. Ross, Jessica Doyle, Jason Barringer, **Myungje Woo**. July, 2008. “Placing the Megaregion in a Global Context,” presented at the 2008 Joint ACSP-AESOP

Conference. Chicago, Illinois, USA.

Myungje Woo. May, 2007. “Impacts of Urban Containment Policies on The Local Economy and Urban Spatial Structure” presented at the Environmental Policy Initiative PhD Workshop, The Ohio State University, USA

Myungje Woo and Jean-Michel Guldmann. April, 2007. “Analysis of Urban Spatial Structure under Urban Containment Land Use Policies” presented at the 2007 Association of American Geographers Conference. San Francisco, California, USA.

Myungje Woo. April, 2007. “The Impacts of Environmental Policies on Employment, Population, and Housing Values” presented at the 21st Annual Edward F. Hayes Graduate Research Forum, The Ohio State University

Myungje Woo and Jean-Michel Guldmann. November, 2006. “Impacts of Urban Containment Policies (Urban Growth Boundaries, Urban Service Areas, and Greenbelt) on the Regional Economy,” presented at the 2006 Association of Collegiate Schools of Planning Conference. Fort Worth, Texas, USA.

INVITED LECTURE, TEACHING, AND SEMINAR

Presenter (with Kyungsoon Wang), Land Use Policies and Housing Values: Urban Containment Policies vs. Smart Growth, May 30, 2012, Land and Housing Institute, Daejeon, South Korea.

Presenter (with Kyungsoon Wang), Impacts of Growth Management Policies and Smart Growth Strategies on Housing Markets: Comparison of Regional vs. Local Policies, May 24, 2012, Seoul Development Institute (SDI), Seoul, South Korea.

Respondent, America 2050 Thought Leaders Seminar: A Program of Regional Plan Association and the Lincoln Institute of Land Policy, March 25-27, 2012, Healdsburg, California.

Co-Instructor (with Catherine L. Ross), Sustainable Urban Development (CP6233-C), School of City and Regional Planning, Georgia Institute of Technology, Spring 2012.

Invited lecturer, “Megaregions and Transportation”, in *Urban Transportation Planning* class of City and Regional Planning (CP6311) and Civil Engineering (CE6602), Georgia Institute of Technology, Atlanta, Georgia, USA, 2011 Fall semester (Instructors: Catherine L. Ross, Randall Guensler, and Kari Watkins).

Invited lecturer, “Economic Growth and Regional Disparities from the Megaregion Perspective”, in *Urban Geography* class of Urban Engineering, The University of Seoul, Seoul, South Korea, 2011 Fall semester (Instructor: Changseok Kim).

Invited lecturer, “Megaregions: Analysis of the Federal High-Speed Rail Program”, in *Urban Transportation Planning* class of City and Regional Planning (CP6311) and Civil Engineering (CE6602), Georgia Institute of Technology, Atlanta, Georgia, USA, 2010 Fall semester (Instructors: Catherine L. Ross and Randall Guensler).

Invited Lecturer, “Growth Management and Sustainable Development” in *Sustainable*

Urban Development class (CP6233) of City and Regional Planning, Georgia Institute of Technology, Atlanta, Georgia, USA 2009 Spring semester (Instructors: Catherine L. Ross and Jason Barringer).

Invited Presenter, “Impacts of Urban Containment Policies on the Spatial Structure and Health of Metropolitan Areas”, Health Place Research Group (HPRG) Meeting (February 2012), Georgia Institute of Technology, Georgia, USA.

Invited Presenter, “Impacts of Different Urban Containment Policies on Urban Growth”, Geography Colloquia Series (Spring 2007) in the Department of Geography at University of Connecticut, Storrs, Connecticut, USA.

OUTREACH AND SERVICE

A. Professional Activities

Member of National Academy of Science Transportation Research Board (TRB) Megaregion Subcommittee under Metropolitan Planning, Policy and Processes (ADA20) Committee, 2011-present

Ohio Higher Education ESRI Site License Manager, The Ohio Supercomputer Center, The Ohio State University, 2005-2007.

B. On-Campus Committees

Research Scientists Search Committee (Center for Quality Growth and Regional Development, Georgia Institute of Technology), 2011

C. Other experience

Military service in Korean Army (January 1993-March 1995)

OTHER PROFESSIONAL RECOGNITION

A. Editorial and Reviewer Work for Technical Journals

Urban Studies, 2007

Journal of Transportation Research Record (TRR), 2011

B. Honors and Awards

The Best Article Award (second place), *International Journal of Urban Science* (IJUS), “Main Factors Associated with Homeowners’ Intentions to Move” (with Hazel A. Morrow-Jones), 2011.

The Patricia Burgess Award for Best Dissertation, Austin E. Knowlton School of Architecture, The Ohio State University, 2008

Jerrold R. Voss Scholarship in honor of the achievement during the academic year, Austin E. Knowlton School of Architecture, The Ohio State University, 2007

Thesis of the Year Award granted toward master’s success, Department of Urban Engineering, The University of Seoul, 1999

The First Place in the Graduation Show, Department of Urban Engineering, The University of Seoul, 1996

GRANTS

Freight Movement, Port Facilities, and Economic Competitiveness, U.S. Department of Transportation National Transportation Center/University Transportation Center, 2012 (Principal Investigator with Catherine L. Ross), \$374,767.

The Architecture of The Megaregion, U.S. Department of Transportation Federal Highway Administration (FHWA), 2011 (Co-Principal Investigator with Catherine L. Ross), \$270,000.

Impact of Regional SPLOSTs on County Infrastructure, Georgia Department of Transportation, 2010 (Co-Principal Investigator with Catherine L. Ross), \$100,000.

Facilitation of Strategic Planning Session for the Atlanta BeltLine Decision Support Tool (DST), Atlanta BeltLine Inc., 2008 (Co-Principal Investigator with Catherine L. Ross), \$26,000.

EPI Graduate Student Professional Travel Grants, Environmental Policy Initiative at the Ohio State University, 2006 (Principal Investigator), \$600.

Knowlton School of Architecture (The Ohio State University) Travel Grants for ACSP Conference, 2006 (Principal Investigator), \$150.

EPI PhD Dissertation Proposal Summer Research Grant: Impacts of Urban Growth Boundaries on the Regional Economy and Urban Spatial Structure, Environmental Policy Initiative at the Ohio State University, 2005 (Principal Investigator), \$3,600.