

Mariel Michelle John Borowitz

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EMPLOYMENT

Georgia Institute of Technology (Assistant Professor) 2013 – Present
Sam Nunn School of International Affairs
Atlanta, GA

RESEARCH INTERESTS

Science and technology policy, climate policy, space policy, data and information policy

EDUCATION

University of Maryland August 2013
College Park, MD GPA 4.0/4.0
Doctor of Philosophy in Public Policy
Dissertation: *International Cooperation on Climate Monitoring via Satellite*

The George Washington University May 2009
Washington, DC GPA 3.9/4.0
Master of Arts in International Science and Technology Policy
Concentration in Space Policy

Massachusetts Institute of Technology June 2006
Cambridge, MA GPA 4.3/5.0
Bachelor of Science in Aeronautics and Astronautics
Minor in Applied International Studies
Completed third year at University of Cambridge as part of Cambridge-MIT Exchange

PUBLICATIONS

- “Weather Satellites: Critical Technology in an Uncertain Environment,” Space Foundation, 2013
- *The Space Report*, Space Foundation, Editor and Contributor, 2009, 2010, 2011, 2012, 2013
- “James Webb Space Telescope: A Worthy Investment in Space Science,” Space Foundation, 2011
- “U.S. National Space Policy Historical Comparison,” Space Foundation, 2010
- “Remote Sensing for Disease Early Warning,” Space Foundation, 2010
- “Space Applications for International Development,” Space Foundation, 2009
- “The International Space Station: Decision 2015,” Space Foundation, 2009
- “NASA: Making Space for Women,” MIT Undergraduate Research Journal, 2004

SELECTED PRESENTATIONS

Weather Satellites: Critical Technology in an Uncertain Environment, Oral Presentation
Rayburn House Office Building, Space Foundation, July 2013

Earth Observation Satellite Data Sharing: Policies and Partnerships, Invited Speaker
Secure World Foundation, Washington, DC, July 2013

International Cooperation on Climate Monitoring via Satellite, Invited Speaker
South Florida University, Tampa, FL, February 2013
Rochester Institute of Technology, Rochester, NY, January 2013
Georgia Institute of Technology, Atlanta, GA, January 2013

International Cooperation on Climate Monitoring via Satellite: Implications for the Mediterranean Area, Poster Presentation
United Nations/ International Astronautical Federation Workshop, Naples, Italy, 2012

Addressing Challenges in U.S. Weather Satellite Development, Poster Presentation
American Association for the Advancement of Science (AAAS) Annual Meeting, Vancouver, Canada, 2012

Political Development of the International Space Station, Oral Presentation
International Space University (ISU) Symposium, Strasbourg, France, 2011

Analysis of Climate Change and Satellite Policy in the U.S., Oral Presentation
International Astronautical Congress (IAC), Prague, Czech Republic, 2010

Space Security: Comparing United States and European Policy, Oral Presentation
ISU Symposium, Strasbourg, France, 2009

Space Agency Contributions to Capacity Building and Innovation, Oral Presentation
IAC Conference, Daejeon, South Korea, 2009

Space Weather and Aviation, Poster Presentation
Space Weather Workshop, Boulder, Colorado, 2008

Engineering and Sustainable Development, Invited Speaker
Engineers Without Borders UK Conference, London, England, 2008

HONORS AND AWARDS

- Goldhaber Travel Grant, University of Maryland Graduate School, 2012
- Washington Space Business Roundtable Scholarship, 2012
- Graduate Research Assistantship, Center for International Security Studies at Maryland (CISSM), 2009, 2010, 2011, 2012
- Graduate Fellowship, University of Maryland School of Public Policy, 2009, 2010
- Mary Kathryn Kubat Award for Student Research, American Association for Budget and Program Analysis, 2009
- Lockheed Martin Fellowship Award for Graduate Study, George Washington University, 2007, 2008
- Morna Milne Award for Academic Excellence, International Space University, 2008
- National Space Society International Space University Scholarship, 2008

- Raytheon Integrated Defense Systems Six Sigma Specialist Award, 2007
- Ralph L. Evans Endowment Fund for Undergraduate Research Project, Massachusetts Institute of Technology (MIT), 2003
- David J. Shapiro Award, MIT Aeronautic and Astronautic Engineering Department, 2003
- British Council Commonwealth Traveling Scholarship, 2003
- Mary Euphrasia Mosely Award, Cambridge University, 2003

TEACHING EXPERIENCE

- Quantitative Aspects of Public Policy** (Teaching Assistant) Fall 2012
University of Maryland School of Public Policy Graduate-level course
- Actively participated in lecture utilizing technology-enabled active learning methods
 - Developed presentations and lead weekly 2.5-hour discussion sections reviewing and expanding on lecture material, readings, and problem sets
 - Assisted graduate students in mastering concepts in probability and statistics
- Global Environmental Problems** (Teaching Assistant) Spring 2011
University of Maryland School of Public Policy Graduate-level course
- Taught 2.5-hour lecture on climate science and methods of climate monitoring
 - Graded written assignments and worked with students to improve writing and policy analysis skills
- Introduction to Aerospace Engineering** (Teaching Assistant) 2006
Massachusetts Institute of Technology (MIT) Undergraduate-level course
- Introduced students to aerospace engineering concepts and helped coordinate multiple hands-on projects
- Physics: Electricity and Magnetism** (Teaching Assistant) 2004, 2006
Massachusetts Institute of Technology (MIT) Undergraduate-level course
- Provided guidance to students in hands on experiments as well as active learning techniques to explain concepts in electricity and magnetism

PROFESSIONAL EXPERIENCE

- Space Foundation** (Research Analyst) 2008 – 2013
Washington, DC
- Actively participated in and contributed to space policy discussions in Washington, DC
 - Proposed research topics, wrote, and published a series of research and policy analysis papers dealing with contemporary space policy issues
 - Edited and contributed to *The Space Report*, a comprehensive annual guide to international space activity
 - Served as project manager for *The Space Report 2013*
- Raytheon** (Systems Engineer) 2006 –2009
Tewksbury, MA
- Developed model of next generation aircraft carrier system architecture using advanced modeling software
 - Modeled mission performance and efficiency using event-based modeling program
 - Obtained secret level security clearance
- NASA** (Student Researcher) 2004, 2008

Washington, DC

- Researched and wrote about International Space Station (ISS) program extension
- Contributed to development of NASA policy for gender inclusion in human research
- Created population tracking database for NASA Office of Biological and Physical Research

Space Policy Institute (Research Assistant)

2007 – 2008

Washington, DC

- Researched space weather issues for aviation and created presentation for workshop
- Attended Center for Integrated Space Weather Modeling summer session
- Organized logistical details of workshop and prepared final report outline

SCHOLARLY AND PROFESSIONAL MEMBERSHIPS

Women in Aerospace (WIA)

Association for Public Policy Analysis and Management (APPAM)

MIT Club of Washington, DC

Cambridge in America, Cambridge University Alumni Group