

CURRICULUM VITAE

Michael S. Wolosin

PROFESSIONAL AND POLICY EXPERIENCE

- 8/2010 – present
Climate Advisers, Washington, DC
Director of Research and Policy: Directing Climate Advisers' research and policy work on reducing emissions from global deforestation. Serving as the program director for the bipartisan Commission on Climate and Tropical Forests.
- 8/2010 – present
Resources for the Future, Washington, DC
Visiting Scholar: Conducting and leading policy research and analysis on U.S. approaches to reducing tropical deforestation emissions. Collaborating with RFF Fellows and Research Assistants to investigate opportunities for additional coordination across the U.S. Government to reduce international land use change emissions. Leading research on Congressional attitudes towards forest conservation and providing insights and recommendations on future policy options.
- 10/2008 – 8/2010
The Nature Conservancy, Arlington, VA
Climate Policy Advisor: Led outreach to and partnerships with conservation organizations, industry, and other external audiences to advance the TNC's climate change and international forest carbon policy objectives. Collaborated with senior Conservancy staff to represent TNC in Congressional and federal agency outreach. Provided written economic and policy analysis of domestic climate change and energy policy proposals and related issues, including appropriations, with a primary focus on REDD. Provided support to field offices, trustees, and government relations staff on climate policy. Monitored developing policy issues and legislation impacting emissions from the international forest sector. Developed materials to educate and inform field staff, board members, external partners, and Hill staff on climate change impacts, proposed state and federal legislation, and the Conservancy's position on these proposals. Provided policy review for the Conservancy's developing international carbon projects.
- 12/2007 – 9/2008
Pew Center on Global Climate Change, Arlington, VA
Science Policy Fellow: Researched, drafted, and edited policy briefs, white papers, and grant proposals. Performed quantitative and qualitative analyses of policy proposals. Attended and reported on climate change meetings, hearings, and conferences. Provided support to the Director of Policy Analysis on fact finding, analysis, and preparation of presentations. Developed specific expertise on forest carbon and avoided deforestation policy, technology policy, economic analyses of the costs and benefits of mitigation, and biofuels policy.
- Summer 2005
Environmental Protection Agency, Office of Water, Office of Science and Technology, Washington, DC
Research Fellow: Investigated the disparate impacts on minority and low-income populations of toxic releases into US streams through the pathway of self-caught fish consumption. Identified shortcomings of an existing exposure model and proposed modifications. Utilized both descriptive statistics and regression analyses to identify demographic groups with a likelihood of high toxin exposure. Produced final report describing methods, results, and priorities for future work.
- 1997 – 2000
Human Capital Strategy Team, William M. Mercer, Inc., Washington, DC
Analyst: Team member in a cutting-edge research and consulting group developing new approaches to aligning people with strategy through client projects at the top

levels of Fortune 500 corporations. Performed empirical analyses including multiple logistic and linear regression. Generated interpretations, conclusions, and insights for clients and communicated results through written reports and on-site presentations to clients. Designed and managed large client data sets, utilizing programming and problem-solving skills to integrate data from multiple sources. Taught technical training seminars to peers and mentored new analysts.

1996 – 1997 Macroeconomic Analysis Division, Congressional Budget Office, Washington, DC
Assistant Analyst: Provided analysts with computer and programming support on research projects. Organized and maintained databanks used for the semi-annual macro-economic forecasts. Responded to information requests from Congressional staff and the general public.

1996 Federal Reserve Bank of Boston, Boston, MA
Intern: Gathered and manipulated Census Bureau data from the Annual Survey of Manufactures and the County Business Patterns Survey. Retrieved and analyzed data for study of the geographic dimensions of technology diffusion.

EDUCATION

- Ph.D. University Program in Ecology, Duke University, Durham, NC, May 2007
Thesis Title: Large Tree Crowns in Closed Forest Canopies: Measuring Structure and Estimating Light
Advisor: James S. Clark
Summary: Models of the physical size and shape of individual trees and their ability to absorb light are an important input in both community ecology research and in climate policies such as accounting for changes in carbon stocks with reforestation. My research overcomes difficulties in both measuring and modeling large tree crown shape and light availability in closed forest canopies. I developed a new approach to extracting three-dimensional crown structural information from high resolution digital stereo imagery. I presented a Bayesian hierarchical statistical model that integrates multiple data sources into estimates of unobservable "true" light available to individual trees. I created two crown models for forest simulations that capture the space-filling nature of trees with minimum detail and parameterized the models from data. Lastly, I investigated the relationship between light availability and growth. I found that light availability predicts the growth rates of large trees primarily for shade-intolerant species, while tolerant species show little correlation between light and growth. I improved the ability of forest models to predict crown area and canopy status from a small number of commonly available inputs. Finally, I successfully predicted the direction of crown movement and the population-level distribution of crown asymmetry.
- A.B. Department of Mathematics, Brown University, Providence, RI, December 1995
Emphases: Mathematics, Economics, and Computer Science

ACADEMIC RESEARCH AND SUPPORT

- 2000 – 2007 Department of Biology and NSEES, Duke University, Durham, NC
Associate in Research: Continued dissertation research after degree completion in collaboration with researchers at Duke and elsewhere.
Research Assistant: Supported for five semesters and five summers. Duties during summers included field and lab work. During academic semesters I conducted my thesis research.

Teaching Assistant: Assisted with courses ranging from undergraduate Introductory Biology to graduate-level ecology and statistics courses over nine semesters.

VOLUNTEER SERVICE AND ADVOCACY

- 2003 – 2007 Bicycle Advocacy
Organizer: Co-founded Duke Bike Advocates (DBA), a campus cycling advocacy group made up of students, faculty, and staff. Activities included community organizing, direct action, collaborating with student groups, and lobbying campus administrators for specific improvements.
Grant writing: Authored a grant proposal to the Duke University Green Grant Fund to finance the launch and first-year operating costs of a new Duke Campus Bike Station. A \$19,400 grant was awarded to DBA.
Commissioner: Appointed by the Durham City Council to a three-year term on the Durham City/County Bicycle and Pedestrian Advisory Commission.
- 2005 – 2006 University Service
Board of Trustees Committee: Elected by the Graduate and Professional Student Council (GPSC) to the Duke University Board of Trustees Buildings and Grounds Committee. Voted on all campus building projects costing more than \$250,000. Focused Trustee attention on development issues important to graduate students. Advocated for Green building approaches and LEED certification.
Central Campus Planning Committee: Selected by GPSC executive committee to represent GPSC on the Duke Central Campus Planning Committee, which set the programmatic goals for redevelopment of 200 acres at the core of Duke's campus, with over \$350 million of construction in phase one. Charged subcommittees with specific tasks and synthesized reports. Balanced competing community needs. Evaluated draft architectural plans and suggested changes. Advocated successfully for mass transit and for bicycle and pedestrian friendly designs.
- 2003 – 2005 Departmental Service
GPSC: Represented the Ecology Program for two years.
Faculty Search Committee: Graduate student representative on the Geospatial Professor of the Practice Search Committee for three semesters.