

Michael A. Levy

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Education

2017 (anticipated) PhD in Ecology: Environmental Policy and Human Ecology, University of California, Davis

2012 MS in Biology, West Virginia University

2004 BS in Chemistry, Fort Lewis College

Publications

REFEREED PUBLICATIONS

2016 Michael Levy. gwdegree: Improving interpretation of geometrically-weighted degree estimates in exponential random graph models. The Journal of Open Source Software 1(3).

2014 Michael Levy and Jonathan Cumming. Development of soils and communities of plants and arbuscular mycorrhizal fungi on West Virginia surface mines. Environmental Management 54(5): 1153-1162.

In revision Mark Lubell, **Michael Levy**, Aseem Prakash, and Matt Potoski. Clubs old and new: Social networks and participation in voluntary environmental programs.

In review Marco Bastos, Carlo Piccardi, **Michael Levy**, Neil McRoberts, and Mark Lubell. Core-periphery or decentralized? How centralized networks emerge from sharing specialized agriculture information.

POLICY AND OUTREACH PUBLICATIONS

2016 Michael Levy, Neil McRoberts, and Mark Lubell. Pillars of sustainable agriculture. Policy brief for UC Division of Agriculture and Natural Resources.

2016 Michael Levy, Neil McRoberts, and Mark Lubell. Mental models of sustainable agriculture. Policy brief for UC Division of Agriculture and Natural Resources.

2015 Michael Levy and Matthew Hoffman. Lodi rules for sustainable winegrowing certification program, 2015 report.

2013 Michael Levy. Integrating science, management, and policy for the future of water in California. Eos, 94(29): 256.

2013 Michael Levy, Matthew Hoffman, Vicken Hillis, and Mark Lubell. Sustainability certification: Why do vineyards participate? Policy Brief for UC Davis Policy Institute for Energy, Environment and the Economy.

2013 Michael Levy. Measure I is our best option for necessary water improvements. The Davis Enterprise, February 10, 2013: A15.

2010 - 2012 Michael Levy. Weekly environmental science and policy opinion column. The Daily Athenaeum, 124(12) - 125(94).

Presentations

PROFESSIONAL CONFERENCES

2016 Michael Levy. Teaching R to 200 people in a week. International R User Conference, Stanford, CA.

2016 Michael Levy, Mark Lubell, Philip Leifeld, Skyler Cranmer. Interpretation of geometrically weighted degree estimates in exponential random graph models. Political Networks Conference, Saint Louis, MO.

2016 Michael Levy. Mental models of sustainable agriculture. Duck Family Graduate Workshop on Environmental Politics and Governance, Seattle, WA.

2016 Michael Levy, Mark Lubell, Philip Leifeld, Skyler Cranmer. Estimating and interpreting geometrically weighted statistics in exponential random graph models. Midwest Political Science Association Conference, Chicago, IL.

2016 Michael Levy. Mental models of sustainable agriculture. Sunbelt Social Network Conference, Newport Beach, CA.

2015 Michael Levy and Mark Lubell. Innovation and cooperation in the structure of agriculture information networks. American Political Science Association Annual Meeting, San Francisco, CA.

2015 Michael Levy and Mark Lubell. Innovation and cooperation in agricultural information networks. Political Networks Conference, Portland, OR.

2015 Michael Levy. Cultural multilevel selection and social networks in sustainable viticulture. Biennial Global Conference: International Association for the Study of the Commons, Edmonton, AB.

2014 Michael Levy. Cultural diffusion and polarization: An agent-based model. Center for Advanced Modeling Graduate Workshop, Baltimore, MD.

2014 Michael Levy, Matthew B. Hoffman, A. Vicken Hillis, and Mark N. Lubell. Who joins the club? Learning pathways for sustainable agriculture certification. Environmental Politics Conference, Santa Barbara, CA.

2011 Michael Levy and Jonathan R. Cumming. Development of soil, biodiversity, and arbuscular mycorrhizae on pasture-reclaimed surface mines in Appalachia. Annual Meeting of the Ecological Society of America, Austin, TX.

OUTREACH PRESENTATIONS

- 2016 **Michael Levy**. Automation, lapply, and custom functions in R. Davis R Users' Group, Davis, CA.
- 2015 **Michael Levy**. Exponential random graph models for statistical inference on networks. Statistical Sciences Symposium, UC Davis Department of Statistics, Davis, CA.
- 2015 **Michael Levy**. Predicting interdependence: Inference from exponential random graph models of social networks. Statistical Methodology in the Social Sciences Conference, UC Davis Institute for Social Sciences, Davis, CA.
- 2015 **Michael Levy**. ERGM tutorial. UC Davis Interdisciplinary Network Science Group, Davis, CA.
- 2014 **Michael Levy**. Environmental certifications among viticulturists. Lodi Winegrape Commission, Davis, CA.
- 2014 **Michael Levy**. dplyr: Data manipulation in R made easy. Davis R Users' Group, Davis, CA.
- 2012 **Michael Levy**. Stripping wild and wonderful: Truths and myths about surface mining in West Virginia. Science on Tap public science forum, Morgantown, WV.
- 2011 **Michael Levy** and Terence Houston. Weighing the long-term implications of mountaintop removal mining. Ecological Society of America podcast, The Ecologist Goes To Washington.
- 2011 Bob H. Baber, Ted Boettner, **Michael Levy**, and Jeff G. Skousen. Coal: The lifeblood of West Virginia? Democracy Matters panel discussion, Morgantown, WV.

Awards

- 2016 Fire on the Fringe: A coupled agent-based model of homeowner and wildfire behavior in Southern California, National Socio-Environmental Synthesis Center (SESYNC) Graduate Research Fellow, \$2,000.
- 2016 Improving statistical inference on networks, Amazon Web Services Cloud Credits for Research Grant, \$703.
- 2016 Political Networks Conference Travel Grant, \$900.
- 2015 Professors for the Future Fellowship, \$3,000.
- 2014 Sustainable Agriculture Scholarship, Annie's Homegrown, \$2,500.
- 2014 Henry A. Jastro Research Award, UC Davis College of Agricultural and Environmental Sciences, \$1,500.
- 2012 Climate Change, Water, and Society, Integrative Graduate Education Research Traineeship, National Science Foundation, \$115,000.
- 2012 Ecology Fellowship, UC Davis, \$51,000.
- 2011 Graduate Student Policy Award, Ecological Society of America.
- 2009 HERF Supplementary Fellowship, West Virginia University, \$2,000.

Teaching Experience

UNIVERSITY OF CALIFORNIA, DAVIS

- 2016** Teaching Assistant, Statistical Rethinking: PhD-level course on applied computational Bayesian data analysis, with Richard McElreath.
- 2015** Developer and Instructor, R Bootcamp: Week-long intensive introduction to the statistical programming language R for 200 graduate students and postdoctoral scholars.
- 2013** Organizer and Lead, Seminar on agent-based models for the study of coupled human and natural systems.

SOFTWARE AND DATA CARPENTRY

- 2016** Developer and Co-Instructor, Pilot Social Sciences Data Carpentry Workshop, UC Davis.
- 2016** Co-Instructor, Software Carpentry Workshop, Stanford University.
- 2016** Co-Instructor, Software Carpentry Workshop, UC Davis.
- 2015** Co-Instructor, Data Carpentry Workshop, UC Davis.

INTERUNIVERSITY CONSORTIUM FOR POLITICAL AND SOCIAL RESEARCH (ICPSR)

- 2015** Teaching Assistant, Introduction to Social Network Analysis in R, with Lorien Jasny.

WEST VIRGINIA UNIVERSITY

- 2011** Teaching Assistant, Environmental Biology Laboratory.
- 2010 - 2011** Teaching Assistant, Total Science Experience: Mentored small group research projects from proposal to presentation.
- 2009 - 2010** Teaching Assistant, Principles of Biology Laboratory.

OTHER

- 2008 - 2009** English as a Foreign Language Teacher, Dogye Elementary School, Gangwon-do, South Korea.
- 2007 - 2008** MCAT Instructor, The Princeton Review, Boulder CO.
- 2005 - 2006** English as a Foreign Language Teacher, Han Yun Sik English Academy, Busan South Korea.

Additional Education

- 2016** Text Analytics, Interuniversity Consortium for Political and Social Research, Ann Arbor, MI.
- 2015** Seminar on College Teaching, Center for Educational Effectiveness, Davis, CA.

- 2015** Instructor training, Software Carpentry, Davis, CA.
- 2013** Multi-platform International Summer School on Agent-Based Modeling and Simulation, Cirad, Montpellier, France.
- 2011** Becoming the Messenger: Science communication training, National Science Foundation, Morgantown, WV.
- 2011** Lobbying Congress for Science, Biological Ecological Sciences Coalition, Washington DC.

Service

UC DAVIS

- 2015 -** Co-Administrator, Davis R Users' Group.
- 2015 -** Founder & Administrator, Interdisciplinary Network Science Group.
- 2014 -** Maintainer, Statistics Courses Guide, Ecology Graduate Student Association.
- 2013 -** Member, Admissions Committee, Graduate Group in Ecology.
- 2015** Graduate Student Representative, Climate Policy Faculty Search Committee, Department of Environmental Science and Policy.
- 2015** Mentor, Dustan Li Undergraduate Research Project.
- 2013** Mentor, AggieMentors high school student research program.
- 2013** Co-organizer, Future of Water in California Conference.
- 2013** Delegate, UC Day in DC.

WEST VIRGINIA UNIVERSITY

- 2010 - 2011** Mentor, Kylene Whipp Undergraduate Honors Thesis.

REFEREE

PLOS ONE