

Noam Ross

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EDUCATION

University of California

Doctoral Candidate in Ecology

Davis, CA

In Progress

- Dissertation Committee: Alan Hastings (major professor, Ecology), David Rizzo (Plant Pathology), Jim Sanchirico (Natural Resource Economics)
- Dissertation Research: "Managing Emerging Forest Disease Under Uncertainty"

Brown University

Bachelor of Science in Environmental Science, Magna Cum Laude

Providence, RI

May 2006

- Honors Thesis: "Soil Organic Matter in Northern Mongolia: Permafrost and Land-Use interactions"
- Phi Beta Kappa, Sigma Xi, Environmental Science Honors, Rosenberger Prize for Outstanding Service

RESEARCH INTERESTS

- Forest disease, pests, and mortality
- Epidemiological models in structured populations
- Forecasting in nonlinear + stochastic systems
- Optimal control
- Ecosystem service-based business risks
- Software development for ecological research, management, and education

SCIENTIFIC PUBLICATIONS

- Carl Boettiger, Noam Ross, Alan Hastings (2013) *Early Warning Signals: The Charted And Uncharted Territories. Theoretical Ecology* <http://dx.doi.org/10.1007/s12080-013-0192-6>
- Fuller, Kate, David Kling, Kaelin Kroetz, Noam Ross, and James N. Sanchirico (2013) *Economics and Ecology of Open-Access Fisheries*. In: Shogren, J.F., (ed.) **Encyclopedia of Energy, Natural Resource, and Environmental Economics**, Vol. 2 Encyclopedia of Energy, Natural Resource, and Environmental Economics p.39-49. Amsterdam: Elsevier. <http://dx.doi.org/10.1016/B978-0-12-375067-9.00114-5>

POSTERS

- "Designing Protective Treatments for Forest Disease Using a Spatial Point Process Model," November 20-21, 2014. California Forest Pest Council Annual Meeting, McClellan, CA.
- "Optimal Control of Forest Disease Under Changing Community and Spatial Structure," November 4-18, 2013. Sustainable Management of Natural Resources Workshop, Mathematical Biosciences Institute, Columbus, OH.

PRESENTATIONS

- Just, Allan and Noam Ross. "The bigger dig: expanded soil pit methods," July 9, 2003. Presentation at Hubbard Brook Ecosystem Study 40th Annual Cooperators' Meeting.
- Ashander, Jamie, Kelly Gravuer, Megan Kelso, Mary E. Mendoza and Noam Ross "Managing River-Floodplains Systems: A Historical and Ecological Perspective" September 14, 2002. Presentation at NSF REACH IGERT Floodplains Workshop

AWARDS + FELLOWSHIPS

- Don Dahlsten Memorial Grant California Forest Pest Council, 2012
Designing Protective Treatments for Forest Disease Using Spatial Point Process Models
- NSF IGERT Bridge Fellowship UC Davis, CA, 2012
Managing Emerging Forest Disease Under Uncertainty
- NSF IGERT Traineeship in Rapid Environmental Change UC Davis, CA, 2010
Modifying River-Floodplain Systems: A Historical and Ecological Approach
- UC Davis Graduate Group in Ecology Fellowship UC Davis, CA, 2010
- NSF Research Experience for Undergraduates Fellowship Academy of Natural Sciences, PA, 2005
- Undergraduate Research Fellowship Brown University, RI, 2003

ACADEMIC SERVICE + PROJECTS

- **Reviewer:** *Theoretical Ecology* (2 reviews)
- **Student Rep**, UC Davis Graduate Group in Ecology Executive Committee Sep 2013–Present
- **Web Developer and Technology Chair**, Ecology Graduate Student Association June 2013–Present
Creator + Maintainer of graduate student blog, resources, and news site (egsa.ucdavis.edu)
- **Founder + Organizer**, Davis R Users' Group Sep 2012–Present
Created users group that provides tutoring and seminars to graduate students in 10+ departments
- **Organizer:** NSF REACH IGERT Workshop on Multiple Goals in Floodplain Restoration Sep 2012
- **Organizer**, UC Davis Conference on Ecology and the Business Sector Apr 2011
- **Organizer**, UC Davis Graduate Group in Ecology Symposium May 2010 + 2011

PREVIOUS RESEARCH EXPERIENCE

Hovsgol Lake Global Environmental Facility and Brown University Mongolia + Providence, RI
National Science Foundation REU Fellow, Thesis Research June 2005-May 2006

Advisor: Clyde Goulден

- Independent research on climate-land use interactions on permafrost soil carbon storage
Plant surveys, soil pit excavation, soil physical and chemical analysis, soil microbial process incubations

Marine Biological Laboratory Ecosystems Center

Woods Hole, MA

Semester in Environmental Science Student

Aug-Dec 2004

Advisor: Charles Hopkinson

- Examined effects of nitrogen pollution on structure of microplankton food webs
- Microcosm experiments, fluorescence microscopy, dissolved nutrient analysis, planktonic growth incubations

Brown Center for Environmental Studies

Providence, RI

Undergraduate Research Fellow

Jun-Aug 2003

Advisor: Steven Hamburg

- Conducted research in biogeochemistry at Hubbard Brook Experimental Forest and surrounding region; oversaw soil pit excavation by undergraduate and graduate field crew
- Plant surveys, forest floor measurements, litter collection, soil pit excavation, soil physical and chemical analysis, GIS analysis in ESRI ArcMap

OTHER WORK EXPERIENCE

GreenOrder

New York, NY

Analyst, Senior Analyst: Corporate Environmental Strategy + Governance Sep 2006–Oct 2009

- Conducted environmental performance analysis for products in energy, transportation, and water sectors
- Created green product metrics system R&D stage-gating system for construction products manufacturer
- Managed engagement with equipment rental company to identify growth opportunities in green building
- Performed market and competitive analyses for a wide array of clients in retail, real estate financial and cleantech sectors; prepared and delivered client presentations; managed projects
- Developed firm seminar series and analyst training materials; conducted trainings on topics including auditing, statistical analysis, and environmental performance benchmarking
- Audited certifications for environmental products and facility performance

Wal-Mart

Providence, RI

Contract Researcher/Consultant: Energy Efficient Products Initiative

May-Sep 2006

- Developed forecasting model for sales of energy-efficient lamps at Wal-Mart stores
- Created guidelines for design of lamp recycling program

Brown University Facilities Management

Providence, RI

Administrative, Research, + Teaching Assistant: Energy and Design

Jan 2003–May 2006

- Developed energy-use and financial projections for university energy usage scenarios
- Performed background research and feasibility analysis for university energy efficiency projects
- Provided tutoring, logistical support and web design for two courses in sustainable design
- Responsible for maintenance of energy efficient, low-impact building

OTHER SERVICE + PROJECTS

- **Contributor**, R packages `knitr`, `knitcitations` and `rethinking` 2012–Present
- **Reviewer**, World Resources Institute Corporate Ecosystem Services Review Jan 2008
- **Reviewer**, McKinsey-Clinton Global Initiative Forestry Project Mar 2008
- **Business Stewardship Volunteer**, NY Coastal Marine Resources Center Feb-Apr 2007

PUBLICATIONS IN POPULAR PRESS

- "Extinction Debt," (Initial author) Wikipedia. Wikimedia Foundation, Inc., February 23, 2011
http://en.wikipedia.org/wiki/Extinction_debt
- "If Everyone Moves to the City, What Gets Left Behind?" *Good.is*, January 17, 2011.
<http://www.good.is/post/if-everyone-moves-to-the-city-what-is-left-behind/>
- "Why the Ethanol Debate Isn't Helping Anyone," *GreenBiz.com*, Jun 3, 2009.
<http://www.greenbiz.com/blog/2009/06/03/why-ethanol-debate-isnt-helping-anyone>
- "Four Lean, Green Strategies for an Uncertain Economy," (with Andrew Shapiro) *Harvard Business Review's Leading Green*, Oct 29, 2008. <http://blogs.hbr.org/2008/10/4-lean-green-strategies-for-an/>
- "What a Silent Spring Means for Business Risk," *GreenBiz.com*, Mar 6, 2007.
<http://www.greenbiz.com/blog/2007/03/05/what-silent-spring-means-business-risk>