621 C St.

**Noam Ross**

Davis, CA 95616

+1.646.244.0484

[noam.ross@gmail.com](mailto:noam.ross@gmail.com)

<http://www.noamross.net>

 @noamross

**EDUCATION**

**University of California** Davis, CA

*Doctoral Candidate* *in Ecology* Expected Completion Summer 2015

* 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** Providence, RI

*Bachelor of Science in Environmental Science, Magna Cum Laude* 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

**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

***In preparation***

* **Ross, Noam**. *Comparative dynamics of SI and multi-infection disease models.* To be submitted to Ecology Letters.
* **Ross, Noam**. *CMP: An R package for modeling under-dispersed data.* To be submitted to Methods in Ecology and Evolution.

*\*Co-equal authorship*

**Posters**

* **Ross, Noam**. “Optimal Control of Disease in Space: An Approach Using Individual-based Models,” June 1-4, 2014. 12th Annual Conference of Ecology and Evolution of Infectious Disease, Fort Collins, Colorado.
* **Ross, Noam**. “Designing Protective Treatments for Forest Disease Using a Spatial Point Process Model,” November 20-21, 2014. California Forest Pest Council Annual Meeting, McClellan, CA.
* **Ross, Noam**. “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**

* **Ross, Noam**, "Fungal Disease Mortality: Modeling for Management of Sudden Oak Death." Dec 1, 2014 Invited talk at EcoHealth Alliance, New York, NY.
* **Ross, Noam**, "Modeling forest disease using a macroparasite framework ," Agust 13, 2014. 99th Annual Ecological Society of America Meeting, Sacramento, CA.
* 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 (***Total received $225,429*)

* Don Dahlsten Memorial Grant ($325) California Forest Pest Council, 2012

*Designing Protective Treatments for Forest Disease Using Spatial Point Process Models*

* NSF IGERT Bridge Fellowship ($57,500) UC Davis, CA, 2012

*Managing Emerging Forest Disease Under Uncertainty*

* NSF IGERT Traineeship in Rapid Environmental Change ($115,00) UC Davis, CA, 2010

*Modifying River-Floodplain Systems: A Historical and Ecological Approach*

* UC Davis Graduate Group in Ecology Fellowship ($40,604) UC Davis, CA, 2010
* NSF Research Experience for Undergraduates Fellowship ($8,000) Acad. of Natural Sciences, PA, 2005
* Undergraduate Research Fellowship ($4,000) Brown University, RI, 2003

**SERVICE + PROJECTS**

* **Workshop Instructor,** Software Capentry and Data Carpentry Foundations Jan 2015–Present
* **Student Rep,** UC Davis Graduate Group in Ecology Executive Committee Sep 2013–Present
* **Reviewer:** *Theoretical Ecology* (4 reviews) Feb 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*

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

**OTHER WORK EXPERIENCE**

**GreenOrder** New York, NY

Analyst, Senior Analyst: Corporate Environmental Strategy + Governance Sep 2006–Oct 2009 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
* Managed analysts performing environmental product certifications and market research
* 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

**Hovsgol Lake Global Environmental Facility and Brown University** Mongolia + Providence, RI

National Science Foundation REU Fellow, Thesis Research June 2005-May 2006

Advisor: Clyde Goulden

* 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

**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