

**NAOMI SCHWARTZ**  
Ecology, Evolution, and Environmental Biology  
Columbia University  
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## **EDUCATION**

**Columbia University**, 2012-2017 (expected)  
Ph.D., Ecology, Evolution, and Environmental Biology  
Supervisors: Maria Uriarte and Ruth DeFries

**University of North Carolina - Chapel Hill**, 2010-2012  
M.S., Ecology  
Thesis: Fire ecology and fire management in the Southern Appalachians: rationale for and effects of prescribed fire  
Supervisor: Aaron Moody

**Duke University**, 2005-2009  
B.A., Environmental Science and Policy (Political Science minor)  
Magna Cum Laude, Graduation with Distinction

**School for International Training**, 2007  
Semester study abroad in Australia, Sustainability and the Environment

## **PUBLICATIONS**

Locatelli, B., C. Catterall, P. Imbach, C. Kumar, R. Lasco, E. Marín-Spiotta, B. Mercer, J. Powers, **N. Schwartz** and M. Uriarte. (*in press*) Tropical reforestation and climate change: beyond carbon. *Restoration Ecology*

Lasky, J.R., Bachelot, B., Muscarella, R.A., **Schwartz, N.B.**, et al. (*in press*) Ontogenetic shifts in trait mediated mechanisms of plant community assembly. *Ecology*.

**Schwartz, N.B.**, M. Uriarte, V.H. Guitierrez-Velez, W. Baethgen, R. DeFries, K. Fernandes, and M.A. Pinedo-Vazquez (2015) Climate, landowner residency, and land cover predict local scale fire activity in the Western Amazon. *Global Environmental Change* 31, 144-153.

### Submitted

Uriarte, M., **N.B. Schwartz**, Powers, J.S., Marin-Spiotta, E., Liao, W., and Werden, L.  
*Submitted*. Impacts of climate variability on tree demography in tropical second-growth forests: The importance of regional context for predicting successional trajectories.

### Non-refereed

Baran, E., N. Schwartz, Y. Kura. 2009. Climate change and fisheries: vulnerability and adaptation in Cambodia. Issues brief no. 2008. The Worldfish Center, Penang, Malaysia.

Whisnant, R., B. Holman, J. Hughes, L. Kleczek, G. Characklis, M. Dimmitt, J. LoBuglio, N. Schwartz, J. Platt, S. Hughes, S. Eskaf, A. Westbrook, A. Guzman, S. Tate, M. Tiger and H. Polikov. 2008. 2008 Report of the Water Allocation Study of the NC Environmental Review Commission. The Nicholas Institute for Environmental Policy Solutions, Durham, NC.

## **FELLOWSHIPS AND AWARDS**

*Columbia University Institute for Latin American Studies summer field research travel grant, 2014, \$1000*

*Columbia University Institute for Latin American Studies summer field research travel grant, 2014, \$600*

*E3B pre-dissertation research travel grant, 2013, \$2500*

*Columbia University Institute for Latin American Studies summer field research travel grant, 2013, \$2000*

*NASA-MSU Professional Enhancement Award, 2013, \$600*

*Dean's fellowship, Columbia University, 2012-2016, \$278,352.*

*NSF Graduate Research Fellowship Honorable Mention, 2011.*

*Fulbright fellowship, Cambodia, 2009-2010, \$16,000.*

*Phi Beta Kappa, inducted March 2010.*

*Sara LaBoskey Award, Duke University, 2009, \$500.*

## **RESEARCH AND FIELD EXPERIENCE**

2008-2009: Research assistant/intern for state water policy, Nicholas Institute for Environmental Policy, Durham, NC.

2008: Research assistant/intern for carbon market regulation, Climate Change Policy Partnership, Durham, NC.

2007: Independent Study: *Exploring the Possibility of a Water Intensity Label*. Advised by Cam Walker, Friends of the Earth Australia.

## **TEACHING EXPERIENCE**

2014 Fall: Statistical modeling in Ecology and Evolution, Department of Ecology, Evolution, and Environmental Biology, Columbia University (Teaching Assistant).

2014 Spring: Introduction to GIS, Department of Ecology, Evolution, and Environmental Biology, Columbia University (Teaching Assistant).

2013 Fall: Environmental Biology 1, Department of Ecology, Evolution, and Environmental Biology, Columbia University (Teaching Assistant).

2012 Spring: Conservation Biology, Curriculum for Ecology and the Environment, UNC Chapel Hill (Teaching Assistant).

2010-2011 (three semesters): Introduction to Environmental Studies, Curriculum for Ecology and the Environment, UNC Chapel Hill (Teaching assistant).  
2011 Spring: Anatomy and Physiology, Biology Department, UNC Chapel Hill (Teaching assistant).  
2011 Spring: Coral Reef Ecology (experiential learning trip to St. John, USVI), Curriculum for Ecology and the Environment, UNC Chapel Hill (Teaching assistant).  
2008-2009: Educator, Museum of Life and Science, Durham, NC.  
2007: Introduction to Policy Analysis, Duke University (Teaching assistant).

Guest lectures:

Environmental Biology 1, Columbia University, 2013: Contemporary research in evolution  
Environmental Biology 1, Columbia University, 2013: The immune system  
Conservation Biology, UNC Chapel Hill, 2012: Conservation genetics  
Conservation Biology, UNC Chapel Hill, 2012: In situ conservation

Other:

Lessons on fire ecology and using socioeconomic data to predict fire activity. Part of *Training workshop on systems and tools for management and prevention of wildfires in the Peruvian Amazon*, Sponsored by CIFOR, Pucallpa, Peru, July 2013. Presentations in Spanish.

## **PRESENTATIONS**

*Invited presentations*

Schwartz, N.B., Gutierrez-Velez, V.H., Baethgen, W., DeFries, R., Fernandes, K., Pinedo-Vasquez, M.A., Uriarte, M. 2013. Modeling the drivers of fire activity in the Peruvian Amazon. Invited talk in symposium “Modelling Coupled Natural-Human Systems in the Tropics.” Annual meeting of the Association for Tropical Biology and Conservation, San Jose, Costa Rica.

Schwartz, N.B. 2013. Understanding the causes and effects of fire in the Peruvian Amazon. Bronxville High School Science Seminar, Bronxville, NY.

White, P.S. and Schwartz, N.B. Why we burn. Keynote presentation. 2012 Annual Meeting of the North Carolina Prescribed Fire Council, Chapel Hill, NC.

Schwartz, N.B. 2010. “Adaptive capacity in Cambodia’s small-scale fisheries.” Invited oral presentation, WorldFish Center, Phnom Penh, Cambodia.

Schwartz, N.B. 2010. “Adaptive capacity in Cambodia’s small-scale fisheries.” Invited oral presentation, Conservation International, Phnom Penh, Cambodia.

Schwartz, N. B. 2009. “Adaptation to flow changes in Cambodia’s fisheries: Methodological framework.” Invited oral presentation, Cambodia Development Resource Institute, Phnom Penh, Cambodia.

### *Contributed presentations*

Schwartz, N.B., Gutierrez-Velez, V.H., Baethgen, W., DeFries, R., Fernandes, K., Pinedo-Vasquez, M.A., Uriarte, M. 2013. Multi-scale drivers of fire in the Peruvian Amazon. Oral presentation. Annual symposium of the US Association of Landscape Ecologists, Austin, TX.

Schwartz, N.B., K.M. Becraft, B.E. Lopez. 2012. Land use alters the relationship between bird diversity and productivity. Poster presentation. Annual symposium of the US Association of Landscape Ecologists, Newport, RI.

Schwartz, N.B., B.E. Lopez, K.M. Becraft, P.A. Wilfahrt, R. Shrestha, L. Dodd, Y.S. Zhang, C.E. Mitchell. 2011. "Productivity and land-use: Effects on bird communities." Poster presentation, Student Conference on Conservation Science, New York, NY.

### **LEADERSHIP ACTIVITIES**

Weekly Ecology and Evolution Discussion Seminar, E3B, Columbia University, Organizer, 2013-2014.

UNC Curriculum in Ecology and the Environment Seminar Committee, 2011-2012.  
Organizer, graduate student women's writing group, UNC Chapel-Hill 2011-2012

### **PROFESSIONAL MEMBERSHIPS**

Ecological Society of America, 2011-present.

US Chapter of International Association of Landscape Ecologists, 2011-present.

Reviewer for: Journal of Applied Ecology, Climate and Development, Environmental Monitoring and Assessment

### **SKILLS**

#### Computer

Programming (R, Python, JAGS, IDL), GIS Software (ArcGIS 9.3, 10), remote sensing software (ENVI 4.8, 5.2), Microsoft Suite.

#### Languages

Spanish, advanced proficiency.

Khmer, advanced proficiency.

Southeast Asia Summer Studies Institute, Khmer language course, University of Wisconsin-Madison, 2009.

Hebrew, intermediate proficiency.