

EDUCATION

PhD Candidate, Environment and Resources / Population Health

Center for Sustainability and the Global Environment (SAGE)
University of Wisconsin – Madison, Advisor: Dr. Jonathan Patz

Madison, WI

Master of Public Health, Global Environmental Health

Rollins School of Public Health, Emory University
GPA 3.9

Atlanta, GA
May 2008

Thesis: The Livelihood Vulnerability Index: A Pragmatic Approach to Assessing Risks from Climate Variability and Change

Bachelor of Arts in Biology

Brandeis University
GPA 3.523; Dean's List, Cum Laude

Waltham, MA
December 2005

Health, Development, Society Study Abroad
School for International Training

Kenya
Spring 2005

SKILLS

Computer: Proficient in Microsoft Word, Excel, PowerPoint/Keynote, EpiInfo, SAS 9.1, GeoDa Spatial Statistics package, ArcGIS 9.2, Photoshop, STELLA 9.1, ENVI 4.6, FRAGSTATS.

Language: Proficient Spanish.

TEACHING EXPERIENCE

Teaching Assistant, Strategies in Global Health, Rollins SPH, Atlanta, GA January – May 2008

- Collaborated with a team of six Teaching Assistants to plan the curriculum for a weekly class with Professor Stanley Foster
- Independently taught a weekly section of 15 students and provided feedback on weekly statistics, conceptual framework, budgeting, and log frame design assignments as part of a semester-long simulation project to design public health programs for Ethiopia

Teaching Assistant, Global Perspectives in Environmental Health, Rollins SPH, Atlanta, GA September – December 2007

- Worked with Professor Rick Rheingans to organize the online reference materials for the 35 person class including posting readings, following up with guest lecturers to obtain their powerpoint presentations, and managing the online gradebook
- Graded weekly assignments for the entire class and answered students' questions regarding assignments

RESEARCH EXPERIENCE

Research Assistant, Wildlife Trust, New York City, NY July-August 2009

- Performed GIS analysis of fruit bat telemetry data collected in Bangladesh and Malaysia to characterize flying patterns of the two bat populations
- Implemented a land cover analysis of the bat habitats using Landsat imagery
- Drafted a manuscript of the study and results of the integrated GIS and remote sensing analysis (currently under review)

Climate Change Assessment Principal Investigator, CARE, Mozambique June – September 2007

- Implemented a 400 household survey in two provinces in Mozambique in collaboration with the CARE International Poverty-Climate Initiative
- Developed research design, drafted survey instrument, organized travel and logistics for research team of five Mozambican university students, and administered training session for CARE-Mozambique staff involved in the study
- Data collected was used for Masters thesis entitled, "*The Livelihood Vulnerability Index: A Pragmatic Approach to Assessing Risks from Climate Variability and Change*"

PROFESSIONAL EXPERIENCE

Student Representative, International Association of Ecology and Health, New York City, NY May 2009-present

- Serve as the liaison between the Student Section and the larger association by attending bi-monthly international conference calls, submitting reports of all student activities for review and comment, and sitting on the Events and Awards Sub-Committee
- Oversee running of the Student Section and maintain contact with 14 student coordinators and committee members from 5 countries, including organizing agenda and coordinator reports and facilitating each of our student conference calls
- Assist with the planning of the 3rd Biennial Conference of IAEH to be held in London, August 2010, including coordinating joint student panels, student workshops, a Silent Auction, a student social event, and an innovative and participatory Arts Initiative

Cartographer and Statistical Assistant, Survey of Health of Wisconsin, Madison, WI August 2009-May 2010

- Geocode residential address to determine if they are eligible to participate in study and perform GIS analysis to assess accuracy of address database
- Run SAS code to perform household sampling
- Create maps and documentation for field team
- Assist with survey quality control by performing analysis on recruitment statistics, coding string variables, and editing survey text

Water Team Biodiversity and Climate Change/Climate Change Policy Analyst Intern, CARE, Atlanta, GA September 2006 – May 2008

- Researched policy and programming paths for CARE-USA and CARE-Water Team to specifically address the link between climate change and water availability in communities with whom we work
- Coordinated a new and innovative international development collaboration effort between conservation organizations such as WWF and The Nature Conservancy and water organizations such as CARE and Water for People under the auspices of Water Advocates
- Organized a database with current CARE projects and developed a multi-layered GIS representation of biodiversity hotspots, programming, and operations to facilitate coordinated efforts between participating partner organizations

Medical Volunteer, Unite for Sight, Kalinga Eye Hospital and Research Center, Orissa, India June – July 2006

- Traveled to rural villages to screen for operable cataracts and bring those with cataracts to eye hospital for surgery
- Assisted with surgery preparation in eye camps and handed out reading and distance glasses that I collected throughout Spring 2006
- To prepare for volunteer expedition, shadowed an optometrist to learn how to screen for cataracts, recognize various eye diseases, and learn about eye anatomy, eye health, and refractive error
- Raised over \$1,000 for the hospital and collected 600+ pairs of eyeglasses to distribute throughout Orissa

Farm Intern, Waltham Fields Community Farm, Waltham, MA January – May 2006

- Wrote curriculum for volunteer groups who come to participate during planting season
- Created a series of fruit and vegetable information sheets that explain nutritional benefits, storage and cooking processes, and simple recipes for each type of produce grown on the farm
- Sheets have been translated into Spanish and given to the large number of Hispanic families who receive much of their diet from food programs connected to Waltham Fields
- Assisted with fieldwork such as clearing the greenhouse, planting seeds, and preparing farm equipment for the spring

Tutor, StudySmart, Newton, MA January – May 2006

- Tutored high school students in a range of subjects, standardized test preparation, and basic study skills

SELECTED PRESENTATIONS

HealthScapes.org: A tool for mapping environment-based vulnerability to infectious disease emergence. *European Wildlife Disease Association (EWDA) Student Workshop*. Veyrier-du-Lac, France, March 19-22, 2009 and *Center for Biodiversity and Conservation Milstein Science Symposium: Exploring the Dynamic Relationship Between Health and the Environment*. New York City, NY, April 2-3, 2009.

The Livelihood Vulnerability Index: A Pragmatic Approach to Assessing Risks from Climate Variability and Change. M Hahn, A Reiderer, and S Foster. *Society for Public Health Education Annual Conference*, San Diego, CA, October 23-25, 2008 and *International EcoHealth Forum*, Merida, Mexico, December 1-5, 2008.

Update on Nipah virus ecology in *Pteropus giganteus*, Bangladesh. JH Epstein, SA Khan, M Hahn, J Hossain, AM Kilpatrick, A Islam, E Gurley, HE Field, WI Lipkin, S Luby, and P Daszak. *Bats and Emerging Viral Disease Workshop*, National Institutes of Health. Rockville, MD, September 10-11, 2009.

PROFESSIONAL AFFILIATIONS

- European Wildlife Disease Association Student Chapter December 2008 – present
- EcoHealth Student Section September 2008 – present
 - Student Representative to the International Association for Ecology and Health (IAEH)*
 - Events and Awards Committee of the IAEH Board*
- American Public Health Association September 2006 – September 2009
 - Environment Section*
 - Climate Change Committee*

UNIVERSITY-RELATED ACTIVITIES

- NSF CHANGE-IGERT Fellow August 2008 – present
- Wisconsin Ecology August 2008 – present
- Culture, History, and Environment Fellow September 2008 – present
- Emory Global Health Organization September 2006 – May 2008
- National Public Health Week Organizing Committee February 2008 – April 2008
- 6th Annual Human Rights Week Organizing Committee February 2008 – April 2008
- Unite for Sight - Emory, Chapter President May 2007 – February 2008
- Focus the Nation Organizing Committee December 2007 – February 2008
- Atlanta Friends of Emergency
 “War and Health” Conference
 Organizing Committee September 2007 – February 2008
- Global Environmental Health Dept. Rep. December 2006 – December 2007

EXTERNAL FUNDING AND AWARDS

*Certificate on Humans and the Global Environment – Integrative Graduate Education and Research Traineeship (CHANGE-IGERT), **National Science Foundation (NSF) Fellowship.*** Full tuition and stipend for two years of interdisciplinary graduate research. University of Wisconsin - Madison, August 2008.

Nelson Institute Student Travel Award. **Nelson Institute for Environmental Studies**, University of Wisconsin – Madison. Grant to travel to European Disease Wildlife Association Student Workshop, Veyrier-du-Lac, France, March 19-22, 2009.

*International EcoHealth Student Scholarship, **EcoHealth.*** Award covers travel, registration, lodging, and per diem. Merida, Mexico, December 2008.

*Environment Section Student Scholarship, **American Public Health Association (APHA).*** Award covers membership fee, registration, travel, and lodging. San Diego, CA, October 2008.

*Eugene J. Gangarosa Award for Excellence in International Health, **Rollins School of Public Health, Emory University.*** Named after the former Director of Public Health at Emory, is presented to the graduating student who has demonstrated a creative approach to solving public health problems and who shows promise for outstanding service in the international arena. Atlanta, GA, May 2008.

*Environmental Health Promotion Fellowship, **Society for Public Health Education / Agency for Toxic Substances and Disease Registry (SOPHE / ATSDR).*** One year fellowship designed to recognize, assist and train students working on research or practice-based projects in environmental health education/health promotion or environmental justice from the perspective of health education or the behavioral sciences. Spring 2008.

PUBLICATIONS

Hahn M, A Reiderer, and S Foster (2009). “The Livelihood Vulnerability Index: A Pragmatic Approach to Assessing Risks from Climate Variability and Change.” *Global Environmental Change*. 19 (74-88).