

EDUCATION

PhD Candidate, Environment and Resources / Population Health

Madison, WI

Center for Sustainability and the Global Environment (SAGE)
University of Wisconsin – Madison, Advisor: Dr. Jonathan Patz
GPA 3.9

Master of Public Health, Global Environmental Health

Atlanta, GA
May 2008

Rollins School of Public Health, Emory University
GPA 3.9

*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 9.3, 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 class and answered students' questions regarding assignments

RESEARCH EXPERIENCE

Research Fellow, International Center for Diarrheal Disease Research, Dhaka, Bangladesh

December 2011 – March 2012

- Worked with ICDDR,B staff to train 30 field staff members to carry out a country-wide village-level case control study of Nipah Virus
- Designed and implemented the protocol for the environmental assessment of *Pteropus* (fruit bat) roosting sites in case and control villages
- Created study sample and field team maps using ArcGIS
- Traveled to the field to work with field teams *in situ* and adjust the study protocol as necessary
- Performed data entry and management on questionnaire, GPS, and digital photo data
- Will analyze the data collected in this study for my dissertation research

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 (will be used in dissertation research)

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

Program Director, F.H. King Students for Sustainable Agriculture, Madison, WI

August 2010 – November 2011

- Planned and implemented programming for the student organization including workshops, speaker panels, movie nights, and sustainable agriculture-related field trips (*examples: mushroom foraging/cultivation, beeswax lip balm workshop, fermentation*)
- Worked with student housing to create plans and implementation guidelines for their urban gardens
- Ran the bicycle-powered compost program that diverts compostable materials from the landfill into the compost pile at the 2-acre farm plot on campus

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
- Assisted 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

- Geocoded residential address to determine if they are eligible to participate in study and perform GIS analysis to assess accuracy of address database
- Ran SAS code to perform household sampling
- Created maps and documentation for field team
- Assisted 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 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 GIS of biodiversity hotspots, programming, and operations to facilitate efforts between 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

PROFESSIONAL AFFILIATIONS

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

UNIVERSITY-RELATED ACTIVITIES

- NSF CHANGE-IGERT Fellow August 2008 – present
- Culture, History, and Environment Fellow September 2008 – present
- Wisconsin Ecology August 2008 – May 2009
- 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 Vilas Grant. **Nelson Institute for Environmental Studies**, University of Wisconsin – Madison. Grant to travel to Bangladesh to complete dissertation research on Nipah Virus, Dec 2011 – March 2012.

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).

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.