

SPECIALIZATIONS

- Human dimensions of global environmental change
- Global change in local places
- Community drinking water systems
- Mixed research methods
- Meteorology

EDUCATION

The Pennsylvania State University, University Park, Pennsylvania

- Ph.D. candidate (ABD), Geography, August 2003, official degree conferral December 2008. Dissertation titled “Building Scenarios of Adaptive Capacity: Case Studies of Community Water Systems in Central Pennsylvania,” advisor Dr. Brent M. Yarnal
- Master of Science, Meteorology, August 2003. Thesis titled “Cloud-to-Ground Lightning Ranging Using the Weibull Distribution,” advisor Dr. Hampton N. Shirer

College of Charleston, Charleston, South Carolina

- Bachelor of Science, Physics, *cum laude* – concentration Meteorology, minor Mathematics, Honors Program, May 2000

RESEARCH EXPERIENCE

Research Assistant, The Pennsylvania State University

- Human Environment Regional Observatories (HERO), The Pennsylvania State University, Fall 2003 – Summer 2005
- Consortium for Atlantic Regional Assessment (CARA), The Pennsylvania State University, Spring 2004

TEACHING EXPERIENCE

Lecturer (part-time), The Pennsylvania State University, Altoona

- GEOG 020: Human Geography: An Introduction, Spring 2008

Co-instructor, The Pennsylvania State University, University Park

- GEOG 438W: Human Dimensions of Global Warming, Fall 2007 (co-instructor with Brent Yarnal)

Instructor (teaching assistantship), The Pennsylvania State University, University Park

- METEO 445: Laboratory in Atmospheric Physics I, Spring 2002, Spring 2003
- METEO 003P: Introduction to Meteorology Laboratory, Fall 2000 – Summer 2001

Teaching assistant, The Pennsylvania State University, University Park

- GEOG 482: The Nature of Geographic Information (Penn State World Campus), Jul. 2005 – December 2006
- GEOG 010: Introduction to Physical Geography (Laboratory portion), Spring 2005
- METEO 201: Introduction to Weather Analysis (Laboratory portion), Fall 2001, Fall 2002

Guest lectures, The Pennsylvania State University, University Park

- GEOG 030: Geographic Perspectives on Sustainability and Human-Environment Systems, “Water resource issues in Centre County: What’s in YOUR water?” June 8, 2007
- GEOG 010: Introduction to Physical Geography. “Wind and atmospheric circulation.” November 1, 2005
- GEOG 010: Introduction to Physical Geography. “The radiation and energy balances.” October 11, 2005
- HERO Research Experience for Undergraduates Short Course, “Adaptation and adaptive capacity.” May 2005
- HERO Research Experience for Undergraduates Short Course, “Controls on climate.” June 2004, May 2005

OTHER PROFESSIONAL PREPARATION

National Weather Service Charleston, South Carolina Forecast Office, Jan. – Aug. 2000

- Student Temporary Appointment, Meteorological Technician, Mar. – Aug. 2000
- College of Charleston internship, Jan. – May 2000

HONORS AND AWARDS

- Society of Woman Geographers, National Dissertation Fellowship, Spring 2007 (approx. \$8000)
- Academic Enrichment Award, C. Gregory Knight Endowment in Geography, for travel to Third International Symposium on Integrated Water Resource Management, Bochum, Germany, September 2006 (\$600)
- The Pennsylvania State University Graduate Assistant Outstanding Teaching Award, 2004
- AMS Student Travel Scholarship to the 15th Symposium on Global Change and Climate Variations, 84th Annual AMS Meeting, Seattle, WA, 2004 (approx. \$1000)
- Palmetto Fellowship (academic scholarship sponsored by the State of South Carolina), 1996 (\$20,000)
- Presidential Honors Scholarship (academic scholarship sponsored by the College of Charleston), 1996 (\$20,000)

PRESENTATIONS

- Whitehead, J. “Incorporating community water systems’ concerns into climate change adaptive capacity analyses: A process for scenario building.” Presentation given at the annual meeting of the Association of American Geographers, San Francisco, CA. April 17-21, 2007.
- Whitehead, J. “Climate change, community water systems, and adaptive capacity: Factors, challenges, and scenario building.” Presentation given at the meeting of the Society of Woman Geographers Washington, D.C. Group, Washington, D.C. April 14, 2007.

- Whitehead, J. “Adaptation Alternatives: Community Water Supply Systems’ Capacity to Adapt to Floods and Droughts in Central Pennsylvania, USA.” Poster presented at the Third International Symposium on Integrated Water Resource Management, Bochum, Germany. September 26-28, 2006.
- Whitehead, J., C. Polsky, C. Sorrensen, L. Harrington, and M. Lu. “Rapid assessment of the capacity to adapt to hydroclimatic change and variation: A cross-site comparison.” Presentation given at the annual meeting of the Association of American Geographers, Denver, CO. April 5-9, 2005.
- Chenault, J. “Investigation of tornadic storms and atmospheric environment on 15 April, 1999, in Eastern Georgia.” Presentation given at the South Carolina Academy of Science Meeting, 2000.
- Chenault, J., J. Frysinger, B.L. Lindner, and S. Brueske. “Sea temperature monitoring with a portable weather station near Charleston, SC.” Presentation given at the Mini-Technical Conference of the Palmetto American Meteorology Society, 1999.
- Chenault, J. “Chaos in Sea and Air Temperature Differences at the Folly Beach Fishing Pier.” Poster presented at the College of Charleston Poster Session, 1999.

PUBLICATIONS

- Neff, R., C. Polsky, C. Sorrensen, and J. Whitehead. In press. “Assessing local vulnerability: The methodological approaches.” In *Sustainable Communities on a Sustainable Planet: The Human-Environment Research Observatories*, ed. The HERO Research Team. Cambridge University Press.
- Neff, R., A. Comrie, L. Harrington, M. Lu, C. Polsky, C. Sorrensen, and J. Whitehead. In press. “Comparing local vulnerabilities: Applying the methodological approaches to the HERO regions.” In *Sustainable Communities on a Sustainable Planet: The Human-Environment Research Observatories*, ed. The HERO Research Team. Cambridge University Press.
- Whitehead, J. “Assessing local-scale climate change adaptive capacity and the role of social capital in drinking water system management.” To be submitted for review and possible publication in *Mitigation and Adaptation Strategies for Global Change*, September 2008.
- Whitehead, J. “Using modified mediated modeling to assess small drinking water systems' abilities to adapt to climatic change and variation.” To be submitted for review and possible publication in the *Journal of the American Water Resources Association*, September 2008.
- Whitehead, J. “Counting the straws on the camel's back: Reflections on a process for community water systems to explore climate change adaptive capacity.” To be submitted for review and possible publication in *Global Environmental Change*, September 2008.
- Whitehead, J., C. Polsky, L. Harrington, M. Lu, and C. Sorrensen. “Rapid assessment of the capacity to adapt to hydroclimatic change and variation: A cross-site comparison.” To be submitted for review and possible publication in *Global Environmental Change*, October 2008.

ASSOCIATIONS AND HONORS SOCIETIES

Professional associations:

- American Water Works Association, student member, 2006
- Association of American Geographers, student member, 2003
- American Meteorological Society, student member, 2000

Honors societies:

- Gamma Theta Upsilon (international geography honor society), 2005

- Sigma Pi Sigma (national physics honor society), 1999
- Phi Sigma Pi National Honor Fraternity, 1997; Gamma Iota chapter parliamentarian, Spring 1998-2000

COMPUTING EXPERIENCE

- Programming: Fortran 98 (intermediate level)
- Modeling and analysis: STELLA (advanced), Atlas Ti (intermediate), SuperDecisions (intermediate), ArcGIS (basic mapping and introductory level spatial analysis)
- Office productivity: Microsoft Word, Outlook, Excel (advanced with introductory VB programming), Microsoft Access (intermediate), Adobe Acrobat Pro (advanced), Adobe ConnectPro (introductory)

DEPARTMENTAL SERVICE

- Graduate Program Committee (GPC), The Pennsylvania State University Department of Geography, 2004-2006
- Graduate Advisory Committee (GAC), The Pennsylvania State University Department of Meteorology, 2002 – 2003
- Undergraduate Academic Program (UGAP) committee, The Pennsylvania State University Department of Meteorology graduate student representative, 2001 – 2003