

Korine N. Kolivras

Virginia Tech
Department of Geography
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Blacksburg, VA 24061
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Education

University of Arizona
Ph.D., Geography, 2004
Minor: Epidemiology
Dissertation Title: *The Environmental and Social Factors of the 2001 Dengue Outbreak in Hawaii*
Advisor: Andrew C. Comrie
Areas of Specialization: medical geography, environment and health, quantitative methods, GIS

University of Arizona
M.A., Geography, 2000
Thesis Title: *Climate Variability and Coccidioidomycosis (Valley Fever)*
Advisor: Andrew C. Comrie

Shippensburg University
B.A. (*magna cum laude*), Geography, 1997
Minors: Spanish and anthropology

Employment

Associate Professor, Department of Geography, Virginia Polytechnic Institute and State University, August 2011-present

Assistant Professor, Department of Geography, Virginia Polytechnic Institute and State University, August 2004-August 2011

Instructor, Department of Geography and Regional Development, The University of Arizona, Winter 1999, Summer 2000, Summer 2001, Summer 2002 ("Introduction to Physical Geography" and "Our Changing Climate")

Research Assistant, The Climate Assessment Project for the Southwest, Institute for the Study of Planet Earth, The University of Arizona, August 1999-August 2002

Research Assistant, University Water Sustainability Project, Department of Geography and Regional Development, The University of Arizona, January 1999-June 1999

Teaching Assistant, Department of Geography and Regional Development, The University of Arizona, August 1998-May 1999

GIS Analyst, Advanced Technology Solutions, Lancaster PA, August 1997-July 1998

Publications

Peer Reviewed Journal Articles (*Student collaborator)

- Phoutrides, E., Coulibaly, M.B., George, C.M.*, Sacko, A., Traore, S., Bessof, K., Wiley, M., **Kolivras, K.N.**, Adelman, Z., Traore, M., and Hunsperger, E.A. 2011. Dengue virus seroprevalence among febrile patients in Bamako, Mali: Results of a 2006 surveillance study. *Journal of Vector-borne and Zoonotic Diseases* 11(8).
- Smith, E.K.*, Resler, L.M., Carstensen, W., and **Kolivras, K.** 2011. Modeling the incidence of white pine blister rust infection in whitebark pine at alpine treeline in the northern Rocky Mountains using GIS. *Arctic, Antarctic and Alpine Research* 43(1).
- Luebbering, C.R.* and **Kolivras, K.N.** 2010. The precarious position of teaching as a graduate student. *The Geographical Bulletin* 51: 111-118.
- Kolivras, K.N.** 2010. Changes in dengue risk potential in Hawaii, USA due to climate variability and change. *Climate Research* 42(1): 1-11.
- Butterworth, M.K.*, **Kolivras, K.N.**, Grossman, L.S., and Redican, K.J. 2010. Knowledge, perceptions, and practices: Mosquito-borne disease transmission in southwest Virginia, USA. *The Southeastern Geographer* 50(3): 366-385.
- Resler, L.M. and **Kolivras, K.N.** 2009. A field-based technique for teaching habitat fragmentation and biogeographic edges. *Journal of Geography* 108(4-5): 210-218.
- Kolivras, K.N.** and Scarpaci, J.L. 2009. Between Corporatism and Socialism: Navigating the Waters of International Education in the Dominican Republic and Cuba. *Journal of Geography* 108(3):121-131.
- Lambert, R.C.*, **Kolivras, K.N.**, Resler, L.M., Brewster, C.C. and Paulson, S.L. 2008. The potential for emergence of Chagas disease in the United States. *Geospatial Health*. 2(2): 227-239.
- Kolivras, K.N.** and Comrie, A.C. 2007. Regionalization and variability of precipitation in Hawaii. *Physical Geography*. 28(1): 76-96.
- Knocke, E.* and **Kolivras, K.N.** 2007. The perception of flash flood risk in southwestern Virginia. *Risk Analysis*. 27(1): 155-169.
- Kolivras, K.N.** 2006. Mosquito habitat and dengue risk potential in Hawaii: A conceptual framework and GIS application. *The Professional Geographer*. 58(2): 139-154.
- Kolivras, K.N.** and Comrie, A.C. 2004: Climate and infectious disease in the southwestern United States. *Progress in Physical Geography*. 28: 387-398.
- Kolivras, K.N.** and Comrie, A.C. 2003: Modeling valley fever (coccidioidomycosis) incidence based on climate conditions. *The International Journal of Biometeorology*. 47: 87-101.
- Kolivras, K.N.**, Johnson, P., Comrie, A.C. and Yool, S.R. 2001: Environmental variability and coccidioidomycosis (valley fever). *Aerobiologia* 17: 31-42.

Book Chapter

Scarpaci, J.L., **Kolivras, K.N.**, and Galloway, W. 2011. Engineering Paradise: Making Claim in the Dominican Republic's Last Frontier. In S. Brunn and A. Wood (Eds.), Engineering Earth: The Impact of Megaengineering Projects. Kluwer/Springer. p. 1267-1281.

Other Book Sections, Conference Proceedings, and Reports

Kolivras, K.N. and Comrie, A.C., 2002: Predicting valley fever incidence based on climate conditions. *The Climate Report*. 3, 12-15.

Kolivras, K.N. and Comrie, A.C., 2001: Predicting valley fever incidence. *CLIMAS Update*. 4, 1-4.

Kolivras, K.N. and Comrie, A.C., 2000. Climate Variability and Valley Fever. Proceedings of the 2nd Southwest Weather Symposium, Tucson, AZ.

Kolivras, K.N. and Comrie, A.C., 2000: Climate and Valley Fever. Pages 39-41, in Chapter 8, Human Health, by Southwest Regional Assessment Group, Preparing for a Changing Climate: The Potential Consequences of Climate Variability and Change. Companion Volume to the National Assessment of Climate Change. Institute for the Study of Planet Earth, University of Arizona, 60 pp.

Comrie, A.C. and **K.N. Kolivras**, 1999. Exploring Climate Variability and Valley Fever. Proceedings of the 24th Climate Diagnostics and Prediction Workshop, Tucson, AZ.

Book Review

Kolivras, K.N. 2009: *Caribbean Landscapes: An Interpretive Atlas*. T. Brothers, J. Wilson, and O. Dwyer. In *Journal of Latin American Geography*. 8(2): 244-246.

Scholarly Presentations (*Student collaborator)

Chau, C.N., Luebbering, C.R., **Kolivras, K.N.**, Zoellner, J.M., and Hill, J. L. Using GIS to determine environmental factors related to obesity in a health disparate region. Presented at the International Society for Behavioral Nutrition and Physical Activity Annual Meeting. Melbourne, Australia, June 15-18, 2011.

Kolivras, K.N., Luebbering, C.R.*, and Resler, L.M. Evaluating differences in landscape interpretation between webcam and field-based experiences. Presented at the 107th Annual Meeting of the Association of American Geographers. Seattle, WA, April 12-16, 2011.

Kimbrell, L.*, **Kolivras, K.N.**, and Luebbering, C.R. Access to healthy living opportunities in Danville, VA. Presented at the 107th Annual Meeting of the Association of American Geographers. Seattle, WA, April 12-16, 2011.

Adams, E.E.* and **Kolivras, K.N.** Operationalizing Scale in Watershed-based Stormwater Management. Presented at the 107th Annual Meeting of the Association of American Geographers. Seattle, WA, April 12-16, 2011.

Muza, M., Carstensen, L.W., **Kolivras, K.N.**, and Dymond, R.L. Development of a Spatial Decision Support System (SDSS) for Emergency Medical Service (EMS) Facility Siting. Presented at the Virginia Tech GIS and Remote Sensing Research Symposium, April 8, 2011.

- Kolivras, K.N.**, Luebbering, C.R.* , and Resler, L.M. Interpreting landscapes using webcam and field visits. Presented at the National Conference on Geographic Education. Savannah, GA, September 29-October 3, 2010.
- Belden, L.K., Benfield, E.F., **Kolivras, K.N.** and Luebbering, C.R.* Land use impacts on infection of stream snails by parasitic trematodes. Presented at the 95th Annual Meeting of the Ecological Society of America. Pittsburgh, PA, August 1-6, 2010.
- Luebbering, C.R.* , **Kolivras, K.N.**, and Prisley, S. The Lay of the Language: Surveying the cartographic characteristics of language maps. Presented at the 106th Annual Meeting of the Association of American Geographers. Washington, DC, April 14-18, 2010.
- Kolivras, K.N.**, Luebbering, C.R.* , Campbell, J.B., Du, P., Smith, E.P., and Gaines, D.N. Environmental variability and Lyme disease emergence in Virginia. Presented at the 106th Annual Meeting of the Association of American Geographers. Washington, DC, April 14-18, 2010.
- Phoutrides, E., Gabbert, L.R., George, C.M., Coulibaly, M.B., Sacko, A., Traore, S., Bessof, K., Wiley, M., **Kolivras, K.N.**, Adelman, Z., Traore, M., and Hunsperger, E.A. Dengue virus seroprevalence among febrile patients in Bamako, Mali: Results of a 2006 surveillance study. Presented at the 58th Annual Meeting of the American Society of Tropical Medicine and Hygiene. Washington, DC, November 18-22, 2009.
- Kolivras, K.N.**, Scarpaci, J., and Galloway, W. Land use change and urban growth in a Dominican shantytown. Presented at the 105th Annual Meeting of the Association of American Geographers. Las Vegas, NV, March 22-27, 2009.
- Butterworth, M.* , **Kolivras, K.N.**, and Grossman, L. Knowledge, perceptions and practices: mosquito-borne disease transmission in southwest Virginia. Presented at the 105th Annual Meeting of the Association of American Geographers. Las Vegas, NV, March 22-27, 2009.
- White, N.* , **Kolivras, K.N.**, Campbell, J., Carstensen, L., and Gaines, D. Spatial patterns of Lyme disease emergence in Virginia and development of environmentally-based risk models. Presented at the 105th Annual Meeting of the Association of American Geographers. Las Vegas, NV, March 22-27, 2009.
- Butterworth, M.* and **Kolivras, K.N.** Knowledge of mosquito-borne disease and personal protective behaviors in Wise and Tazewell counties in Virginia. Presented at the Dean's Forum on Infectious Diseases. Blacksburg, VA, September 29, 2008.
- Scarpaci, J.L., **Kolivras, K.N.**, and Galloway, W. Engineering Paradise: Making Claim in the Dominican Republic's Last Tourist Frontier. Presented at the Engineering Earth Conference: The Impacts of Megaengineering Projects. Lexington, KY, July 21-23, 2008.
- Kolivras, K.N.** Panel Discussant. Theoretical, Methodological, and Pedagogical Frameworks, Environmental Exposures & Disease Outbreaks session. Congress of the Humanities and Social Sciences, Annual Meeting of the Environmental Studies Association of Canada. Vancouver, BC, June 3-6, 2008.
- Kolivras, K.N.** A multi-scale examination of disease emergence and environmental variability. Presented at the Congress of the Humanities and Social Sciences, Annual Meeting of the Environmental Studies Association of Canada. Vancouver, BC, June 3-6, 2008.
- Butterworth, M.* and **Kolivras, K.N.** An application of the Health Belief Model: mosquito-borne disease perceptions and practices in southwest Virginia. Presented at the 104th Annual Meeting of the Association of American Geographers. Boston, MA, April 15-19, 2008.

- Burke, A.* , Luebbering, C.* , and **Kolivras, K.N.** Spatial Patterns of West Nile Infection and Mosquito Distributions in Fairfax County, Virginia. Presented at the 104th Annual Meeting of the Association of American Geographers. Boston, MA, April 15-19, 2008.
- Kolivras, K.N.**, Scarpaci, J., and Galloway, W. The incorporation of a land use analysis fieldwork project in a study abroad program. Presented at the 62nd Annual Meeting of the Southeastern Division of the Association of American Geographers. Charleston, SC, November 18-20, 2007.
- Kolivras, K.N.**, Gaines, D., Sedlock, S., Smith, E., Du, P., Campbell, J., and Sforza, P. A strategy for the investigation of environmental characteristics associated with tick *Borrelia burgdorferi* infection in Virginia. Presented at the Dean's Forum on Health, Food, and Nutrition. Blacksburg, VA, November 5, 2007.
- Butterworth, M.* and **Kolivras, K.N.** An application of the Health Belief Model: Community attitudes regarding mosquito-borne disease. Presented at the Dean's Forum on Health, Food, and Nutrition. Blacksburg, VA, November 5, 2007.
- Cepero, E., **Kolivras, K.N.**, and Scarpaci, J.L. Health Risks from Illegal Garbage Dumps and Abandoned Sites in Old Havana, 2003-2007. Presented at the 17th Annual Meeting of the Association for the Study of the Cuban Economy. Miami, FL, August 2-4, 2007.
- Kolivras, K.N.** Changes in Dengue Risk Potential in Hawaii based on Climate Variability and Change. Presented at the 103rd Annual Meeting of the Association of American Geographers. San Francisco, CA, April 17-21, 2007.
- DallaPiazza, K.L.* and **Kolivras, K.N.** Modeling the Risk of West Nile fever in Virginia Using a GIS Approach. Presented at the 103rd Annual Meeting of the Association of American Geographers. San Francisco, CA, April 17-21, 2007.
- Kolivras, K.N.** Shifts in areas of potential dengue risk in Hawaii based on climate variability and change. Presented at the Deans' Forum on the Environment. Blacksburg, VA, February 26, 2007.
- Kolivras, K.N.** The importance of scale in assessing the relationship between climate variability and disease emergence potential. Presented at the 7th Annual National Conference on Science, Policy, and the Environment: Integrating Environment and Human Health. Washington, D.C., February 1-2, 2007.
- Kolivras, K.N.** and Scarpaci, J.L. Health Concerns and Help-Seeking Behavior in a Dominican Shantytown. Presented at the 102nd Annual Meeting of the Association of American Geographers. Chicago, IL, March 7-11, 2006.
- Kolivras, K.N.** Stigma and mosquito-borne disease: A case study of the 2001-2002 Hawaiian dengue outbreak. Presented at the 60th Annual Meeting of the Southeastern Division of the Association of American Geographers. West Palm Beach, FL, November 20-22, 2005.
- Click, R.A.* and **Kolivras, K.N.** Climate variability and the potential spread of Chagas disease in North America. Presented at the 60th Annual Meeting of the Southeastern Division of the Association of American Geographers. West Palm Beach, FL, November 20-22, 2005.
- Kolivras, K.N.** and Scarpaci, J.L. "Outside the Gates": Health and housing needs in a shantytown enclave in eastern Dominican Republic. Presented at the Conference of Latin Americanist Geographers. Morelia, Michoacán, Mexico, October 26-28, 2005.

- Kolivras, K.N.** and Scarpaci, J.L. Urban health concerns in a Dominican shantytown. Presented at Outreach NOW -- A Forum on the Scholarship of Outreach. Blacksburg, VA, September 28, 2005.
- Kolivras, K.N.** Mosquito habitat and dengue risk potential in Hawaii: A conceptual framework and GIS application. Presented at the 101st Annual Meeting of the Association of American Geographers. Denver, CO, April 5-9, 2005.
- Kolivras, K.N.** Examination of dengue fever potential in Hawaii using GIS. Presented at the Virginia GIS Conference. Roanoke, VA, November 8-9, 2004.
- Kolivras, K.N.** Spatial and temporal variability of the *Aedes albopictus* mosquito in Hawaii. Presented at the 100th Annual Meeting of the Association of American Geographers. Philadelphia, PA, March 15-19, 2004.
- Kolivras, K.N.** Examination of the dengue outbreak in Hawaii using a disease ecology approach. Presented at the 99th Annual Meeting of the Association of American Geographers, New Orleans, LA. March 5-8, 2003.
- Kolivras, K.N.** and Comrie, A.C. Exploring links between climate and influenza outbreaks. Presented at the 98th Annual Meeting of the Association of American Geographers, Los Angeles, CA. March 20-23, 2002.
- Kolivras, K.N.** and Comrie, A.C. Development of a climate-coccidioidomycosis predictive model. Presented at the 45th Coccidioidomycosis Study Group Meeting, Tucson, AZ. March 31, 2001.
- Kolivras, K.N.** and Comrie, A.C. Climate and health: predicting valley fever incidence from climate variability. Presented at the 97th Annual Meeting of the Association of American Geographers, New York, NY. February 28-March 3, 2001.
- Kolivras, K.N.** and Comrie, A.C. Exploring climate variability and valley fever. Presented at the 2nd Southwest Weather Symposium, Tucson, AZ. September 21-22, 2000.
- Kolivras, K.N.** and Comrie, A.C. Climate variability and valley fever. Presented at the 96th Annual Meeting of the Association of American Geographers, Pittsburgh, PA. April 4-8, 2000.
- Kolivras, K.N.** Climate and Health: The relationship between climate and valley fever. Presented at the 4th Annual Western Geography Student Conference, Boulder, CO. February 4-6, 2000.

Invited Scholarly Presentations

- Kolivras, K.N.**, Lambert, R.C., Resler, L., Brewster, C., and Paulson, S. The role of climate in the potential emergence of Chagas disease. Presented at the 58th Annual Meeting of the American Society of Tropical Medicine and Hygiene. Washington, DC, November 18-22, 2009.
- Kolivras, K.N.** Geographic dimensions of disease emergence: Human-environment interactions across spatial scales. Presented as part of the Department of Entomology's Seminar Series, Virginia Tech, October 1, 2009.

Kolivras, K.N. Linking scales in the study of environmental variability and disease emergence. Presented as part of the Department of Biology's Ecology and Evolutionary Biology Seminar Series, Virginia Tech, April 6, 2007.

Kolivras, K.N. Exploring environmental variability and mosquito-borne disease using a Geographic Information System (GIS). Presented at the 60th Annual Meeting of the Virginia Mosquito Control Association. Williamsburg, VA, February 7-9, 2007.

Kolivras, K.N. The use of GIS in studies of infectious disease and environmental variability. Presented to Epidemiological Concepts of Health and Disease Course, Virginia Tech, March 28, 2006.

Kolivras, K.N. Mosquito-borne disease: Malaria and dengue. Presented to Environmental & Social Sustainability in the Dominican Republic Study Abroad Course, Punta Cana Biodiversity Center, Dominican Republic, May 26, 2005.

Kolivras, K.N. GIS applications in the study of health and disease. Presented as part of the Department of Food Science and Technology Seminar Series, Virginia Tech, March 4, 2005.

Grants

Externally-funded Proposals

2011: National Science Foundation, "Environmental Variability and Disease Emergence: Spatial Patterns of Lyme Disease Emergence in Virginia" (\$199,998) (PI, with co-PI's James Campbell, David Gaines, Yili Hong, and Stephen Prisley)

2007: National Council for Geographic Education, "A comparative analysis of virtual and conventional landscape interpretation" (\$3500) (PI, with co-PI Lynn Resler)

2006: American Geographical Society, "Collaborative Environmental Management in Caribbean Tourist Regions: Linking Geographic Scales of Analysis and Public-Private Partnerships" (\$58,000) (co-PI, with PI Joseph Scarpaci and co-PI William Galloway)

2006: Association of American Geographers Research Grant, "Assessing the Potential for Mosquito-borne Disease Outbreaks in Virginia: A Pilot Study" (\$1,000) (PI)

2005: Via Virginia College of Osteopathic Medicine. "A Help-Seeking Behavior Profile of the Residents of Verón, Alta Gracia Province, Dominican Republic" (collaborator, with consultant Joseph Scarpaci)

Internally-funded Proposals

2008: Institute for Biomedical and Public Health Sciences, Virginia Tech Seed Grant "Environmental variability and Lyme disease in Virginia" (\$20,000) (PI, with co-PI's James Campbell, Pang Du, David Gaines, Dana Hawley, Steve Sedlock, Eric Smith)

2006: College of Natural Resources, Virginia Tech Seed Grant "Amphibians as natural agents of mosquito population control" (co-PI, with PI William Hopkins and co-PI Sally Paulson) (\$9,800)

2005: Faculty Grant, Office of International Research, Education, and Development/Office of International Affairs, Virginia Tech: "Assessment of Health-related Exposures in a Squatter Settlement in the Dominican Republic" (\$1,000) (PI)

2005: Summer Faculty Fellow Grant, Center for Excellence in Undergraduate Teaching, Virginia Tech: "Restructuring Introduction to Human Geography (GEOG 1004)" (\$6,000) (PI)

Fieldwork

Dominican Republic – February 2008, March 2007, May 2005
Cuba - January 2007
Hawaii - February 2004, January 2003

Awards

2010: Higher Education Distinguished Teaching Award, National Council for Geographic Education

2006: Curriculum Club Outstanding Teacher, Department of Geography, Virginia Tech.

2005: J. Warren Nystrom Award Finalist. National competition for best paper from a dissertation in Geography, Association of American Geographers.

Graduate Student Committees

Committee Chair

In progress: Lauren Kimbrell, M.S. Student, Department of Geography
Thesis topic: Geographical patterns of obesity (Expected completion: May 2012)

2011: Candice Luebbering, Ph.D., Geospatial and Environmental Analysis Program
Dissertation title: The Cartographic Representation of Language: Understanding language map construction and visualizing language diversity

2011: Erica Adams, M.S. Student, Department of Geography
Thesis title: Operationalizing scale in watershed-based stormwater management

2009: Melinda Butterworth, M.S.
Thesis title: Knowledge, Perceptions, and Practices: Mosquito-borne Disease Transmission in Southwest Virginia

2009: Kristin DallaPiazza, M.S.
Thesis title: A Global Approach to Disease Prevention: Predicting High Risk Areas for West Nile Infection in the US

2007: Rebecca Click Lambert, M.S.
Thesis title: Chagas Disease in the United States: The emerging threat and the role climate and awareness play in its spread

Committee Member

In progress: Clarice Chau, Ph.D. Student, Dep't of Human Nutrition, Foods, and Exercise
Thesis topic: Community health and obesity (Expected completion May 2013)

In progress: Keri Agriesti, M.S. Student, Dep't of Geography
Thesis topic: Gendered soil knowledge (Expected completion May 2012)

- In progress: Benjamin "Jake" Beale, M.S. Student, Dep't of Forest Resources and Environmental Conservation
Thesis title: Dendroclimatic response of sugar maple in response to tapping (Expected completion May 2012)
- 2011: Matej Muza, M.S. Student, Dep't of Geography
Thesis title: Development of a Spatial Decision Support System for Emergency Medical Service Facility Siting (Expected completion May 2011)
- 2010: Heather Lee, M.S. Student, Dep't of Geography
Thesis title: Food Retail Shops and Food Import Dependency in the Dominican Republic
- 2009: Tim Moore, Ph.D. Student, Dep't of Civil and Environmental Engineering
Dissertation title: Application of a Mobile Flux Lab for the Atmospheric Measurement of Emissions (FLAME)
- 2009: Emily Smith, M.S.
Thesis title: Modeling Blister Rust Incidence in Whitebark Pine at Northern Rocky Mountain Alpine Treelines: A Geospatial Approach
- 2009: David Murray, M.S.
Thesis title: Spatial Distribution of Exotic Plants in Relation to Physical Environmental Factors with Analysis using GIS
- 2007: David Arnold, M.S.
Thesis title: Environmental Justice in Virginia's Rural Drinking Water: Analysis of Nitrate Concentrations and Bacteria Prevalence in the Household Wells of Augusta and Louisa County Residents
- 2007: Monica Dazzini, M.S.
Master's project title: Highway I-95 and Landscape Fragmentation in Northern St. Johns County, Florida: A GIS-based Comparison of Landscapes in 1973, 1990, and 2000
- 2006: Cory Dannels, M.S.
Master's project title: A Model of Pierce's Disease Susceptibility for Virginia Based on Climate and Land Use

Undergraduate Research or Independent Study Director

- Spring 2010 – Michael Van Atta "Mapping Healthy Living in Danville"
- Spring 2009 – Haley Booe "Medical Geography"
- Fall 2007 – Ashleigh Burke "Spatio-temporal patterns associated with the emergence of West Nile virus in Fairfax County, Virginia"
- Fall 2005 - Kristin DallaPiazza "Geographic contributions to research on obesity"
- Spring 2005 - Ethan Knocke "The perception of flash flood risk in Southwestern Virginia"

Professional Development

- Participant, Intensive Second Language Institute at Virginia Tech, Advanced Spanish Grammar and Oral Practice. July 15-29, 2005, Blacksburg, VA.

Invited Participant, National Center for Atmospheric Research's Summer Colloquium and Institute on Climate and Health, July 21-28, 2004, Boulder, CO.

Courses Taught

Health and the Global Environment, graduate seminar (Virginia Tech)
Medical Geography, 4000 level (Virginia Tech)
Geographic Theory and Research, 5000 level (Virginia Tech)
Urban Health and Hazards, 4000 level (Virginia Tech)
Introduction to Human Geography of the Caribbean, 1000 level (Virginia Tech, Punta Cana, DR)
Introduction to Human Geography, 1000 level (Virginia Tech)
Geographic Theory and Research, graduate seminar (Virginia Tech, team taught)
Introduction to Physical Geography, 100/1000 level (The University of Arizona, Virginia Tech)
Our Changing Climate, 200 level (The University of Arizona)

Professional Service

Intramural

Personnel Committee, Department of Geography, Virginia Tech, August 2010-present.

Graduate Committee, Department of Geography, Virginia Tech, August 2010-present.

Search Committees, Meteorology (Chair) and Geospatial Positions, Department of Geography, 2010-2011.

Master's of Public Health Program Planning Committee, Virginia Tech. Fall 2007-Spring 2010.

Graduate Committee, Department of Geography, Virginia Tech, August 2004-August 2009.

Equipment and Facilities Committee, Department of Geography, Virginia Tech, August 2006-present.

Infectious Disease Advisory Committee for the Institute of Biomedical and Public Health and Safety (IBPHS), Virginia Tech. Fall 2004-present.

Dean's Forum on Infectious Diseases Planning Committee, Virginia Tech. Fall 2007-Fall 2008.

Search Committee, Wildlife Disease Faculty Member, College of Natural Resources. Fall 2005-spring 2007.

Undergraduate Committee, Department of Geography, Virginia Tech, August 2004-August 2008.

Organizer of Department Speaker Series, Department of Geography, Virginia Tech, August 2005-August 2006.

Member of Judging Committee for graduate student award competitions at the 22nd Annual Research Symposium, Graduate Student Assembly. March 2006.

Graduate Student Committee Representative, Department of Geography and Regional Development, University of Arizona, August 2003-May 2004.

Graduate Representative to Faculty, Department of Geography and Regional Development, University of Arizona, August 2003-August 2003

President, Southern Arizona Geographical Association, January 2001-January 2002

Physical Geography Committee Graduate Student Representative, Department of Geography and Regional Development, University of Arizona, August 1999-May 2000

Vice President, Gamma Theta Upsilon, Shippensburg University, May 1996-May 1997

Extramural

Board Member (2010-2012) and Jacques May Thesis Prize Coordinator (2011-2012), Health and Medical Geography Specialty Group, Association of American Geographers (2010-2012).

Reviewer, Jacques May Prize for Best Dissertation in Medical Geography, Health and Medical Geography Specialty Group, Association of American Geographers, March 2009 and March 2011.

Judge, Graduate Student Paper Competition, Graduate Student Affinity Group, Association of American Geographers, April 2008.

Board Member, Medical Geography Specialty Group, Association of American Geographers (2006-2008).

Moderator, World Geography Bowl. The 62nd Annual Meeting of the Southeastern Division of the Association of American Geographers. Charleston, SC, November 18-20, 2007.

Moderator, World Geography Bowl. The 61st Annual Meeting of the Southeastern Division of the Association of American Geographers. Morgantown, WV, November 19-21, 2006.

Moderator, World Geography Bowl. The 60th Annual Meeting of the Southeastern Division of the Association of American Geographers. West Palm Beach, FL, November 20-22, 2005.

Session Chair, "Climate and Health III." The 101st Annual Meeting of the Association of American Geographers, Denver, CO., April 5-9, 2005.

Session Organizer and Chair, "Environmental Health and Disease." The 100th Annual Meeting of the Association of American Geographers, Philadelphia, PA. March 14-19, 2004

Reviewer, *Annals of the Association of American Geographers* (3), *Climate Research, Environmental Health Perspectives, Geography Compass* (2), *Global Change Biology, International Journal of Biometeorology, International Journal of Climatology* (2), *International Journal of Health Geographics, Journal of Applied*

*Geography, Professional Geographer (4), Singapore Journal of Tropical
Geography (2)*

Outreach

Lecturer, Monsoon Madness Summer Camp for 8-14 year olds. July 2003, Tucson AZ

Lecturer, Air Quality: Integrating 6th-12th Grade Science Content Through
Toxicology, June 6, 2002, Tucson, AZ

GIS Workshop Leader, Expanding Your Horizons Conference for 7th to 12th
Grade Women, April 13, 2002, Tucson, AZ

Moderator and Judge, Arizona State National Geographic Bee Preliminary
Rounds, April 6, 2001, Tucson, AZ

Memberships

2005-present: Southeastern Division of the Association of American Geographers (SEDAAG)

2002-present: National Council for Geographic Education

1999-present: Association of American Geographers
Health and Medical Geography Specialty Group
Climate Specialty Group
Human Dimensions of Global Change Specialty Group

1998-2004: Southern Arizona Geographical Association

1995-1997: Gamma Theta Upsilon Geography Honor Society