

ELISABETH DOWLING ROOT

Department of Geography, College of Arts and Sciences
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EDUCATION

- 2009** **University of North Carolina**, Chapel Hill, NC
Ph.D. in Geography
- 2003** **University of Maryland**, College Park, MD
M.A. in Geography
- 1999** **Pomona College**, Claremont, CA
B.A. *cum laude* in Anthropology and Public Policy Analysis

TEACHING EXPERIENCE

- 2015-** **The Ohio State University**
Associate Professor, Department of Geography, College of Arts and Sciences
Associate Professor, Division of Epidemiology, College of Public Health
- 2009-2015** **University of Colorado at Boulder**
Assistant Professor, Department of Geography
Faculty Research Associate, Institute of Behavioral Science

PROFESSIONAL AND RESEARCH EXPERIENCE

- 2007-2009** **Carolina Population Center**, Chapel Hill, NC, *Graduate Research Assistant*
- 2003-2007** **RTI, International**, Research Triangle Park, NC, *Research Health Analyst*
- 2002** **U.S. Census Bureau**, Suitland, MD, *Summer Intern*
- 1999-2002** **The Lewin Group**, Falls Church, VA, *Research Analyst*

AWARDS AND FELLOWSHIPS

- 2013** Emerging Scholar Award, Health and Medical Geography Specialty Group, AAG
- 2009** Robert Wood Johnson Health and Society Scholar Post-doctoral Fellowship,
University of Michigan (Declined)
- 2007-2009** NSF IGERT Fellowship, Carolina Population Center
- 2007** University of North Carolina Smith Research Award

RESEARCH RECORD

Books

Emch, M., **Root, E.D.**, and Carrel, M. 2017. *Health and Medical Geography*. The Guilford Press: New York. ISBN 978-1-4625-2006-0. 512 pages.

Peer Reviewed Publications

Journal Articles:

- Root, E.D.**, M. Lucero, H. Nohynek, R. Stubbs, V. Tallo, S.P. Lupisan, D.M. Sanvictores, L.T. Nillos, G. Williams, E.A.S. Simoes, ARIVAC Consortium. 2016. Distance to health services modifies the effect of an 11-valent pneumococcal vaccine (PCV) on pneumonia risk among children less than 2 years of age in Bohol, Philippines. *International Journal of Epidemiology*. (doi: 10.1093/ije/dyw217)
- Jochem, W.C., A. Razzaque, **E.D. Root**. 2016. Effects of health intervention programs and arsenic exposure on child mortality from acute lower respiratory infections in rural Bangladesh. *International Journal of Health Geographics* 15(1): 32. (doi: 10.1186/s12942-016-0061-9).
- Lawrence, E., **E.D. Root**, S. Mollborn. 2015. Residential mobility in early childhood: Household and neighborhood characteristics of movers and non-movers. *Demographic Research* 33(32): 939-950. (doi: 10.4054/DemRes.2015.33.32).
- Thomas, D.S.K., P. Anthamatten, **E.D. Root**, M. Lucero, H. Nohynek, V. Tallo, G. Williams, E.A.S. Simões, ARIVAC Consortium. 2015. Disease mapping for informing targeted health interventions: Childhood pneumonia in Bohol, Philippines. *Tropical Medicine and International Health* 20(11): 1525-1533. (doi: 10.1111/tmi.12561).
- Nassel, A.F., **E.D. Root**, J.S. Haukoos, K. McVaney, C. Colwell, J. Robinson, B. Eigel, D.J. Magid, C. Sasson. 2014. Multiple cluster analysis for the identification of high-risk census tracts for out of hospital cardiac arrest (OHCA) in Denver, Colorado. *Resuscitation* 85: 1167-1173. (doi: 10.1016/j.resuscitation.2014.08.029)
- Root, E.D.** and J.L. Humphrey. 2014. Neighborhood Racial Composition and Trajectories of Child Self-Rated Health: An Application of Longitudinal Propensity Scores. *Social Science & Medicine* 120: 31-39. (doi:10.1016/j.socscimed.2014.09.006)
- Root, E.D.**, D.S.K. Thomas, E.J. Campagna, E.H. Morrato. 2014. Adjusting for Geographic Variation in Observational Comparative Effectiveness Studies: A Case Study of Antipsychotics Using State Medicaid Data. *BMC Health Services Research* 14:355. (doi:10.1186/1472-6963-14-355)
- Mee, P., Collinson, M.A., Madhavan, S., **Root, E.D.**, Tollman, S.M., Byass, P., Kahn, K. 2014. Evidence for localised HIV micro-epidemics associated with the decentralized provision of antiretroviral treatment in rural South Africa: a spatial-temporal analysis of changing mortality patterns (2007 - 2010). *Journal of Global Health* 4(1): 010403. (doi:10.7189/jogh.04.010403)
- Root, E.D.**, M. Lucero, H. Nohynek, P. Anthamatten, D.S.K. Thomas, V. Tallo, A. Tanskanen, B. Quiambao, T. Puumalainen, S. Lupisan, P. Ruutu, E. Ladesma, G. Williams, I. Riley, E.A.S. Simoes, ARIVAC Consortium. 2014. Distance to health services affects local-level vaccine efficacy for pneumococcal conjugate vaccine (PVC) among rural Filipino children. *Proceedings of the National Academy of Sciences* 111(9): 3520-5. (doi:10.1073/pnas.1313748111)

- Root, E.D.** and J.L. Humphrey. 2014. The impact of childhood mobility on exposure to neighborhood socioeconomic context over time. *American Journal of Public Health* 104(1): 80-2. (doi:10.2105/AJPH.2013.301467)
- Sasson, C., H. Meischke, B.S. Abella, R.A. Berg, B.J. Bobrow, P.S. Chan, **E.D. Root**, M. Heisler, J.H. Levy, M. Link, F. Masoudi, M. Ong, J.S. Rumsfeld, M.R. Sayre, T.D. Rea; on behalf of the American Heart Association. 2013. Increasing cardiopulmonary resuscitation provision in communities with low bystander cardiopulmonary resuscitation rates: a science advisory from the American Heart Association for healthcare providers, policymakers, public health departments, and community leaders. *Circulation* 127: 1342-1350. (doi:10.1161/CIR.0b013e318288b4dd)
- Root, E.D.**, L. Gonzales, D.E. Persse, P.R. Hinchey, B. McNalley and C. Sasson. 2013. A tale of two cities: The role of neighborhood socioeconomic status in spatial clustering of bystander CPR in Austin and Houston. *Resuscitation* 84(6): 752-759. (doi:10.1016/j.resuscitation.2013.01.007)
- Root, E.D.**, J.R. Rodd, M. Yunus and M. Emch. 2013. The role of socioeconomic status in longitudinal trends of cholera in Matlab, Bangladesh, 1993-2007. *PLoS Neglected Tropical Diseases* 7(1): e1997. (doi: 10.1371/journal.pntd.0001997)
- Sasson, C., D.J. Magid, P. Chan, **E.D. Root**, B.F. McNally, A.L. Kellermann, J.S. Haukoos. 2012. Association Between Neighborhood Race/Ethnicity and Income and Bystander CPR for Out-of-Hospital Cardiac Arrest. *The New England Journal of Medicine* 367(17): 1607-15. (doi:10.1016/j.resuscitation.2013.01.007)
- Root, E.D.** 2012. Moving Neighborhood and Health Research Forward: Using Geographic Methods to Examine how Spatial Scale and Mobility Affect Neighborhood Effects on Health. *The Annals of the Association of American Geographers* 102(5): 986-995. (doi:10.1080/00045608.2012.659621)
- Emch, M., **E.D. Root**, S. Giebultowicz, M. Ali and M. Yunus. 2012. Integration of Spatial and Social Network Analysis in Disease Transmission. *The Annals of the Association of American Geographers* 102(5): 1004-1015. (doi:10.1080/00045608.2012.671129)
- Root, E.D.**, S. Giebultowicz, M. Ali, M. Yunus and M. Emch. 2011. The role of vaccine coverage among social networks in cholera vaccine efficacy. *PLoS ONE* 6(7): e22971. (doi:10.1371/journal.pone.0022971)
- Root, E.D.**, R. Meyer and M. Emch. 2011. Socioeconomic Context and Gastroschisis: Exploring Associations at Various Geographic Scales. *Social Science and Medicine* 72(4): 625-633. (doi:10.1016/j.socscimed.2010.11.025)
- Root, E.D.** and M. Emch. 2010. Tracing drinking water to its source: an ecological study of the relationship between textile mills and gastroschisis in North Carolina. *Health & Place*, 16(5): 794-802. (doi:10.1016/j.healthplace.2010.04.004)
- Root, E.D.**, R. Meyer and M. Emch. 2009. Evidence of Localized Clustering of Gastroschisis in North Carolina, 1999-2004. *Social Science and Medicine*, 68(8): 1361-1367. (doi:10.1016/j.socscimed.2009.01.034)

- Emch, M., M. Ali, **E.D. Root** and M. Yunus. 2009. Spatial and Environmental Connectivity Analysis in a Cholera Vaccine Trial. *Social Science and Medicine*, 68(4): 631-637. (doi:10.1016/j.socscimed.2008.11.025)
- Mobley, L.R., **E.D. Root**, E.A. Finkelstein, O.A. Khavjou, R. Farris, and J. Will. 2006. The Built Environment, Obesity, and Cardiovascular Disease Risk in Low-Income Women. *American Journal of Preventive Medicine*, 30(4): 327-332.
- Mobley, L.R., **E.D. Root**, L. Anselin, N.L. Gracia, and J. Koschinsky. 2006. Spatial Analysis of Elderly Access to Primary Care Services. *International Journal of Health Geographics*, 5(19).
- Greenwald, L.M., J. Cromwell, K. Adamache, S.L. Bernard, E.M. Drozd, **E.D. Root**, and K. Devers. 2006. Specialty vs. Community Hospitals: Referrals, Quality, and Community Benefits. *Health Affairs*, 25(1):106-118.

Proceedings and Book Chapters

- Root, E.D.**, J. Gaensbauer, H. Nohynek, M. Lucero, A. Tanskanen, L. Nillos, V.Tallo, E.A.F. Simões, ARIVAC Consortium. 2012. Evolution of Respiratory Syncytial Virus (RSV) Over Space and Time in Rural Filipino Children. *Proceedings of the ACM SIGSPATIAL HealthGIS Conference, November 6, 2012. Redondo Beach, CA.*
- Root, E.D.** and M. Emch. 2012. The Ecology of Injuries in Matlab, Bangladesh in *Ecologies and Politics of Health*. B. King and K. Crews (eds). New York: Routledge Press.

Non-Peer Reviewed Publications

Book Chapters

- Root, E.D.** and M. Emch. 2011. Regional Environmental Patterns of Diarrheal Disease in Bangladesh: A Spatial Analytical and Multilevel Approach in *Geospatial Analysis of Environmental Health*. S. McLafferty and J. Maantay (eds). New York: Springer-Verlag.
- Emch, M. and **E.D. Root**. 2010. Emerging and Remerging Diseases in *A Companion to Health & Medical Geography*. T. Brown, S. Curtis and G. Moon (eds). Oxford: Blackwell Publishing.
- Savitz, L.A, R. Lavin and **E.D. Root**. 2007. Geographic Information Systems: a Strategic Tool for Better Planning, Response and Recovery. *National Security Issues in Science, Law and Technology*, T.A. Johnson (ed). Boca Raton: CRC Press.

Invited Reviews

- Root, E.D.** 2013. Commentary on the paper "Modelling determinants, impact and space-time risk of age-specific mortality in rural South Africa: integrating methods to enhance policy relevance". *Global Health Action* 6:1-2.
- Root, E.D.** 2011. A Review of "A Companion to Health and Medical Geography". *Annals of the Association of American Geographers* 101(2): 456-458.

Papers in Revise & Resubmit Status or Under Review

Humphrey, J.L. and **E.D. Root**. Psychosocial adjustment among U.S. elementary school children: a social ecological analysis. Revise and Resubmit to *Social Science & Medicine*.

Mollborn, S., E. Lawrence, **E.D. Root**. Residential Mobility across Early Childhood and Children's Kindergarten Readiness. Revise and Resubmit to *Demography*.

Root, E.D., K. Silbernagel and J. Litt. Empirical assessment of neighborhood aesthetic ratings in an urban setting. Revise and Resubmit to *Landscape and Urban Planning*.

Papers in Preparation for Submission

Jochem, W.C. and **E.D. Root**. Spatial data collection and processing for surveys: Experiences from the Matlab Health and Socioeconomic Survey. Planned submission to *The Professional Geographer*.

Root, E.D., E. Bailey, J. Menken, T. Grillos, A. Zarychta, K. Andersson. Health Systems Decentralization in Rural Honduras: No Evidence for Improvements in Child Health. Planned submission to *Lancet Global Health*.

Root, E.D., C. Jochem, J. Menken, R. Kuhn. The Changing Landscape of Basic Health Services in Rural Bangladesh, 1992-2016. Planned submission to *Health & Place*.

Root, E.D., G. Kagy, J. Menken, T. Barham, R. Kuhn. Ageing in Place: Elderly Health and Health Care in Rural Bangladesh. Planned submission to *Global Health*.

Root, E.D., D. Augustine, C. Kartasasmita, E.A.S. Simoes. The Ecological Determinants of Human Influenza A Infection in Rural Indonesia. Planned submission to *Emerging Infectious Diseases*.

Augustine, D., **E.D. Root**, C. Kartasasmita, E.A.S. Simoes. The Environmental Risk Factors of Human Influenza Spatial Clustering In Rural Indonesia. Planned submission to *Emerging Infectious Diseases*.

Humphrey, J.L. and **E.D. Root**. "Home" versus "school" neighborhoods: An examination of relevant geographic spaces for children and early adolescents.

Grants

- **Root, E.D.** (P.I.); C. Browning (co-I); P. Salsberry (co-I). Spatial Analysis of Infant Mortality in Ohio: Tools to Support Evaluation and Program Development, \$291,690, 2016-2017
- Simoes, E.A.F (P.I.); **E.D. Root** (co-I). PCV Impact on Cognitive Development. Bill and Melinda Gates Foundation, \$89,000-OSU portion, 2016-2019.
- Raiz, L. (P.I.); **E.D. Root** (co-I); W. Hayes (co-I). Health Status and Access to Health Care in Ohio: A Determinants of Health Perspective. Ohio Colleges of Medicine Government Resource Center, \$99,985, 2015-2016.
- **Root, E.D.**, (P.I.); W.C. Jochem (co-P.I.). Doctoral Dissertation Research: Social and Spatio-temporal Patterns of Arsenic Exposure and Effects in Bangladesh. NSF/Geography and Spatial Sciences, \$15,763, 2015-2016.

- Miller, S. (P.I.); **E.D. Root** (co-P.I.). Climate Change Mitigation in Low-Income Communities in Colorado: Home Weatherization Impacts on Respiratory Health and Indoor Air Quality During Wildfires. Environmental Protection Agency, \$998,999, 2014-2017.
- Hunter, L. (P.I.); **E.D. Root** (co-I); F. Riosmena (co-I). CUPC Climate Change, Migration and Health Conference. National Institutes of Health, National Institute of Child Health & Human Development, \$6,000, 2014-2015.
- **Root, E.D.**, (P.I.); J. Humphrey (co-P.I.). After the School Bell: The Effects of Neighborhood Social Processes on Behavioral and Educational Trajectories of Children and Early Adolescents. AERA Graduate Dissertation Grant, \$20,000, 2014-2015.
- Anderson, K. (P.I.); **E.D. Root** (co-P.I.); J. Menken (co-P.I.); T. Bossert. Understanding the Dynamics of Local Health Systems in Developing Countries: Decentralization and Polycentric Governance Theory. NSF Interdisciplinary Behavioral and Social Science (IBSS) Research Competition, \$996,000, 2013-2016.
- Litt, J. (P.I.); **E.D. Root** (co-I). Planning for Healthy Communities: Understanding the role of the social and the built environments on perceptions of neighborhood quality. University of Colorado at Boulder, Innovative SEED Grant, \$40,000, 2013-2014.
- **Root, E.D.**, (P.I.); J. Rodd (co-P.I.). Doctoral Dissertation Research: Sociopolitical Interaction and Health Outcomes in Refugee-Hosting Communities. NSF/Geography and Spatial Sciences, \$15,842, 2013-2014.
- Menken, J. (P.I.); R. Kuhn (co-P.I.); A. Razzaque (co-P.I.); A. Bhuiya (co-P.I.); **E.D. Root** (co-I); T. Barham (co-I). Long-term Effects of Health and Development Interventions in Rural Bangladesh, National Institutes of Health, National Institute on Aging, \$3,240,691, 2010-2015.
- Riosmena, F. (P.I.); **E.D. Root** (co-I). The role of local context on the Hispanic Health Paradox and immigrant health adaptation processes. Stanford Center for Poverty and Inequality and University of Colorado Population Center Grant, \$25,000, 2013.
- **Root, E.D.** (P.I.). Temporal Dimensions of Neighborhood Effects on Childhood Health and Well-Being. University of Colorado Population Center Grant, \$11,720, 2012-2013.
- **Root, E.D.** (P.I.); S. Mollborn. Children on the move? Childhood residential mobility and the effects of neighborhood on child well-being. University of Colorado at Boulder, Innovative SEED Grant, \$40,000, 2010-2012.
- Emch, M.E. (P.I. – UNC); **E.D. Root** (P.I. – CU); P. Bearman; M. Ali; J. Clemens. Spatial and Social Network Analysis in Vaccine Trials. National Science Foundation, BCS Program, \$299,999-total grant, \$44,702-CU portion, 2009-2013.

Submitted and Pending Support

Remunerated Consulting

- **Root, E.D.** (co-P.I.), Simoes, E.A.F. (co-P.I.). Disease Mapping to Support IMCI/iCCM Programming. World Health Organization.

- Simoes, E.A.F. (P.I.), Verghese, V.P. (co-I), Satav, A. (co-I), Baveja, S. (co-I), Panigrahi, P. (co-I). Burden of Lower Respiratory Tract Infection (LRI) Caused by Respiratory Syncytial Virus (RSV) In Infants In India: A Multicenter Population Based Study. Bill and Melinda Gates Foundation.
- Swigris, J. (P.I.). (P4f) Patient Participation Program for Pulmonary Fibrosis: Assessing the Effects of Supplemental Oxygen. Patient-Centered Outcomes Research Institute (PCORI) (non-profit organization).
- Simoes, E.A.F. (P.I.) and C.B. Kartasasmita (P.I.). US-Indonesia Influenza Collaborative Study. USAID (non-profit government organization).
- Morrato, E. (P.I.). Effectiveness of Invega Sustenna© in a Medicaid Population. Ortho-McNeil Janssen Scientific Affairs, LLC (for-profit company).
- Thomas, D. (P.I.). Utilizing GIS for the study of physical activity: individual and environmental mechanisms of PA change. Kaiser Permanente (non-profit organization).

Academic Presentations

Invited Individual Talks

Has Cholera Met It's Match? Geographic Science and the Fight Against a Global Killer. Invited Lecture at Science Sundays, The Ohio State University (Columbus, OH, December, 2016).

Health Systems Decentralization in Rural Honduras: A Preliminary Look at Child Health. Invited Seminar at the Carolina Population Center, University of North Carolina (Chapel Hill, NC, September, 2016).

Assessing the local context of disease: politics, economics and data driven strategies for pneumococcal vaccination. Invited IPR Seminar, The Ohio State University (Columbus, OH, January, 2016).

Geographic methods and health research: politics, economics and science driven strategies for pneumococcal vaccination. Keynote address at the No)Boundaries Conference, The Pennsylvania State University (State College, PA, April 2015).

Diarrheal Disease Ecology: Remote Sensing, GIS, and the Complex Dynamics of Disease. Presented at the National Center for Atmospheric Research Seminar Series. (Boulder, CO, February 2015).

After John Snow: New Frontiers in Medical Geography. Presented at the Honors College Plenary Lecture Series. University of Vermont (Burlington, VT, October 2013).

Presentations at Conference and Meetings

E.D. Root. *Spatio-temporal dynamics of viral group circulation among children with acute respiratory infection.* Presented at the American Association of Geographers Annual Conference (San Francisco, CA, April 2016).

E.D. Root, M.G. Lucero, H. Nohynek, V. Tallo, R. Stubbs, E.A.F. Simões and ARIVAC Consortium. *Distance to health services modifies the effect of an 11-valent pneumococcal vaccine (PCV) on pneumonia*

- risk among children less than 2 years of age in Bohol, Philippines.* Poster presented at ID Week 2015 (San Diego, CA, October 2015).
- E.D. Root.** *Disease environment and access to care: childhood pneumonia risk in the Philippines.* Presented at the International Medical Geography Symposium (Vancouver, BC, Canada, July 2015).
- E.D. Root, K. Albright, F.S. Wamboldt, J.J. Swigris.** *Does Supplemental Oxygen Expand ILD Patients' Worlds? Assessment by Global Positioning System (GPS) and Accelerometry.* Presented at the American Thoracic Society International Conference (Denver, CO, May 2015).
- E.D. Root.** *Geospatial Analysis of RSV Infection Among Children Vaccinated for Pneumococcal Pneumonia: Evidence for Cross-Protection?* Presented at the American Association of Geographers Annual Conference (Chicago, IL, April 2015).
- E.D. Root, D.S.K. Thomas, P. Anthamattan, EAF Simoes.** *Geographic distance, vaccination and disease environment.* Presented at the American Association of Geographers Annual Conference (Tampa, FL, April 2014).
- E.D. Root and J.L. Humphrey.** *Child Self-Rated Health: The effect of longitudinal measures of neighborhood racial composition.* Presented at the XXVII IUSSP International Population Conference (Busan, South Korea, August 2013).
- E.D. Root, J. Gaensbauer, E.A.F. Simoes, ARIVAC Consortium.** *Evolution of Respiratory Syncytial Virus (RSV) Over Space and Time in Rural Filipino Children.* Presented at the International Medical Geography Symposium (East Lansing, MI, July 2013).
- E.D. Root, H. Nohynek, M. Lucero, A. Tanskanen, L. Nillos, V. Tallo, E.A.F. Simoes, ARIVAC Consortium.** *The Effect of Distance on the Efficacy of an 11-Valent Pneumococcal Conjugate Vaccine in the Philippines.* Presented at the American Association of Geographers Annual Conference (Los Angeles, CA, April 2013).
- E.D. Root, D. Thomas, E.J. Campagna, J.W. Newcomer, J. Parks, E.H. Morrato.** *Geospatial Variation in Drug Utilization and the Potential for Confounding by Geography.* Poster presentation at the 28th International Conference on Pharmacoepidemiology and Therapeutic Risk Management (Barcelona, Spain, August 2012).
- Sasson, C., D. Magid, P. Chan, **E.D. Root**, B. McNally, A. Kellermann, J. Haukoos. *All Cardiac Arrests Are Not Created Equal: How Neighborhoods Impact the Likelihood of Having an Automated External Defibrillator Used.* Poster Presentation at the Society of Academic Emergency Medicine (Chicago, IL, May 2012).
- E.D. Root.** *Does cholera risk depend on social or spatial proximity? Results from a longitudinal analysis in Matlab, Bangladesh.* Presented at the International Symposium on Medical Geography (Durham, UK, July 2011).
- E.D. Root.** *Regional Environmental Patterns of Diarrheal Disease in Bangladesh: A Spatial Analytical and Multilevel Approach.* Presented at the American Association of Geographers Annual Conference (Seattle, WA, April 2011).
- E.D. Root and M. Emch.** *Tracing drinking water to its source: an ecological study of the relationship between textile mills and gastrochisis in North Carolina.* Presented at the American Association of Geographers Annual Conference (Washington, D.C., March 2010)

E.D. Root, R. Meyer and M. Emch. *Evidence of localized clustering of gastroschisis births in North Carolina, 1999-2004*. Presented at the XXVI IUSSP International Population Conference (Marrakech, Morocco, September 2010).

Giebultowicz, S., **E.D. Root**, and M. Emch. *Examining the Role of Social Networks and Herd Immunity in a Cholera Vaccine Trial in Bangladesh*. Presented at the Population Association of America (Detroit, MI, May 2009).

E.D. Root. *Evidence for neighborhood effects on health: the case of gastroschisis in North Carolina*. Presented at the American Association of Geographers Annual Conference (Las Vegas, NV, April 2009).

E.D. Root and M.A. Carrel. *Exploring the effects of spousal education and employment on female age at first birth using international census microdata*. Presented at the European Population Conference (Barcelona, Spain, July 2008).

E.D. Root. *Spatio-temporal clustering of birth defects in North Carolina*. Presented at the American Association of Geographers Annual Conference (Boston, MA, April 2008).

TEACHING RECORD

Courses Taught

- Seminar in Spatial Methods (GEOG 8104), OSU, Fall 2015
- Life and Death Geographies (GEOG 3702), OSU, Spring 2016
- GIS & Public Health (GEOG 5229), OSU, Fall 2016
- Introduction to Global Public Health (GEOG 4100), CU Boulder, Spring 2015
- Medical Geography (GEOG 4852/5852), CU Boulder, Spring 2011, 2012, 2014
- Population Geography (GEOG 4732/5732), CU Boulder, Fall 2012, Spring 2014
- Quantitative Methods (GEOG 4023/5023), CU Boulder, Spring 2010, 2011, 2012
- Statistics for Geography (GEOG 3023), CU Boulder, Fall 2013, 2014
- Human Geographies (GEOG 1992), CU Boulder, Fall 2014

Workshops and Short Courses Taught

Instructor for ICPSR Summer Short Course on Spatial Regression. ICPSR (Boulder, CO, August 2014; Chapel Hill, NC, June 2015; Boulder, CO, June 2016)

Co-instructor for course on Spatial Demography. CU Population Center (Boulder, CO, June 2012)

Co-instructor for course on Environmental Demography. CU Population Center (Boulder, CO, June 2013)

Students Advised

Note: ABD indicates the student has passed comprehensive exams and proposal defense and advanced to candidacy. A date indicates the student graduated and received his/her degree.

Primary Advisor:

- Megan McHaney, M.A. (OSU Geography)
- Emelie Bailey, M.A. (OSU Geography, 2016), Ph.D. (OSU Geography)
- Joshua Rodd, Ph.D. – co-Advisor with John O’Loughlin (CU Geography, 2016), Dissertation Topic: *Politics, Health and Space: The Cases of Two Refugee Communities and their Neighboring Communities in Uganda*

- Chris Jochem, M.A. (CU Geography, 2012), Ph.D. (CU Geography, 2016), Dissertation Topic: *Social and Spatio-Temporal Patterns of Arsenic Exposure and Respiratory Effects in Bangladesh*.
- Jamie Humphrey, Ph.D. (CU Geography, 2015), Dissertation Topic: *Local contextual effects on mental and behavioral disorders during elementary and middle school: A life course perspective*

Dissertation Committees: Sara Hellmuth Paull (Ecology & Evolutionary Biology, 2012); Jochen Wendel, (Geography, 2013); Tyler Roberts (Geography, 2014); Dwi Augustinian (Epidemiology, Colorado School of Public Health, 2014); Sarah Hart (Geography, 2014); Katie Richgels (Ecology & Evolutionary Biology, 2014); Comilla Sasson (Epidemiology, Colorado School of Public Health, 2014); Erin Martinez (Epidemiology, Colorado School of Public Health); Chris Hartman (Geography, 2016); Petra Norlund (Geography, ABD); Tyler Gorham (OSU COPH, 2017); Lauren Portman (OSU EHE, 2017)

Master's Thesis Committees: Connor Sheehan (Geography, 2011); Morgan Zeilff (Geography, 2013); Li Xu (Geography, 2013); Andrew Stauffer (Geography, 2013); Ahn Lee (Geography, 2014); Nancy Lubuye (Clinical Science, Colorado School of Public Health, 2015)

Undergraduate Thesis Committee Member: Nathan Zick-Smith (Geography, 2015); Madison Musgrave (Geography, 2014); Tracy Pihl (Geography, 2012); Alicia Beaman (International Affairs, 2012); Colleen Smith (Geography, 2012); Ashley Armstrong (International Affairs, 2011)

SERVICE RECORD

Service to Professional Organizations

- Board member, Health and Medical Geography Specialty Group, Association of American Geographers (AY 2010-2013)
- Chair, Jacques May Dissertation Prize Competition, Health and Medical Geography Specialty Group, Association of American Geographers (2012, 2013)
- Invited participant, American Heart Association Scientific Committee on "Improving Access to Bystander Cardiopulmonary Resuscitation" (2012-2013)
- Invited participant, NSF Emerging Infectious Disease Workshop, The Ohio State University (September 2012)
- Invited participant, NIH-Wide Geospatial Infrastructure Symposium, Bethesda, MD (February 2011)

Review Service for Academic Journals and Other Organizations

- Ad hoc manuscript reviewer for: *Health & Place* (x8), *Social Science & Medicine* (x4), *BMC Public Health* (x3), *BMC Infectious Diseases* (x3), *BMC Health Services Research* (x2), *Annals of the AAG* (x5), *Transactions in GIS* (x2), *Public Health Reports* (x2), *Applied Geography* (x2), *Southeastern Geographer* (x1), *Canadian Journal on Aging* (x1), *GeoJournal* (x1), *Annals of Epidemiology* (x1), *Journal of Family Theory & Review* (x2), *Maternal and Child Health Journal* (x1), *International Journal of Epidemiology* (x1)
- Invited Study Section Participant NIH/NIAID – International Collaborations in Infectious Disease Research (2014)
- Ad-hoc grant reviewer for the Wellcome Trust (2014)
- Grant Proposal Reviewer for the National Science Foundation (NSF) Geography and Regional Science Division (2010, 2011, 2012, 2013, 2015)
- Reviewer, Jacques May Dissertation Award, Health and Medical Geography Specialty Group, Association of American Geographers (2010, 2011, 2013, 2015)