

Curriculum Vitae - Dr. Joseph Holler

Contact Information

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Professional Profile

Current Position

Visiting Assistant Professor, Middlebury College Department of Geography

Education

2012, PhD in Geography – University at Buffalo, State University of New York
Dissertation Title: *Adaptation and Social Vulnerability on Mount Kilimanjaro, Tanzania: Challenges and Possibilities for Sustainable Climate Change Adaptation*
2012, Certificate in Geographic Information Science – University at Buffalo, State University of New York
2003, BA in Anthropology, Computer Science, and Media Studies – Ithaca College

Academic Interests

adaptation & vulnerability to global environmental change, development geography, geographic information science, open source GIS, political ecology (*ordered alphabetically*)

Employment

8/2015 – 7/2017 Visiting Assistant Professor, Middlebury College Geography
6/2015 – 8/2015 Visiting Scholar, Brown University, Institute at Brown for Environment & Society
9/2013 – 5/2015 GIS Teaching Fellow, Middlebury College Geography
8/2012 – 8/2013 Visiting Assistant Professor, University of Mary Washington Geography
7/2011 – 8/2012 Research Assistant, University at Buffalo Law School
8/2009 – 5/2010 Teaching Assistant, University at Buffalo Geography
1/2009 – 7/2009 Intern, Jane Goodall Institute, Tanzania
8/2007 – 8/2008 Teaching Assistant and Adjunct Professor, University at Buffalo Geography
9/2003 – 12/2005 Information Technology Teacher and Lab Administrator, Peace Corps, Tanzania

Professional & Academic Honors

2013 AAG J. Warren Nystrom Award for the best paper based on a dissertation
2012 AAG Development Geographies Specialty Group Student Paper Award
2006 – 2012 GIScience National Science Foundation IGERT Fellow, University at Buffalo
1999 – 2003 Dean's Scholarship, School of Communications, Ithaca College
1999 – 2003 New York State Academic Excellence Scholarship

Research Grants and Awards

- 2016 [collaborator on \$12,500 component of Memorial Hospital of Rhode Island/Brown University Family Medicine grant] "Transforming Family Centered Primary Care for Children & Adolescents in Underserved Communities" U.S. Department of Health and Human Services Health Resources and Services Administration.
- 2015 [PI, \$1,402] "Tracking international development aid and climate change finance at the sub-national scale: a review of methodologies and empirical test in Malawi" *Faculty Research Assistant Fund*, Middlebury College.
- 2014 [Visiting Scholar with PI Timmons Roberts, \$29,665] "Official Funding for Adaptation to Climate Change: Understanding Geographic Patterns of Project Allocation: to Areas of Need or Political Connections?" *Institute at Brown for Environment & Society Small Grant*, Brown University.
- 2014 [PI, \$1,402] "Open GIScience Education and Pedagogy" *Faculty Research Assistant Fund*, Middlebury College.
- 2010 [PI, \$2,000] "Environmental change, livelihood insecurity and opportunities for adaptation on Mount Kilimanjaro" *Mark Diamond Research Fund*, University at Buffalo.
- 2010 [PI, \$1,000] "Environmental change, livelihood insecurity and opportunities for adaptation on Mount Kilimanjaro" *Hugh W. Calkins Applied GIS Award*, University at Buffalo Geography.
- 2009 [PI, 2 IKONOS Scenes] "Community-integrated GIS for conservation education and development on Mount Kilimanjaro" *GeoEye Foundation Imagery Grant*.

Publications & Presentations

Journal Articles

1. Holler, J. (in revision). Teaching open and critical GIS, in S. Rey and Sui, D. (eds.) Open Science [special issue], *International Journal of Geographical Information Science*.
2. Holler, J. 2014. Is sustainable adaptation possible? Determinants of adaptation on Mount Kilimanjaro, *The Professional Geographer*, 66(4), 526-537.
3. Holler, J. 2014. Local social organization and cross-scale networks for sustainable adaptation on Mount Kilimanjaro, in J. McCarthy, D. Lopez-Carr, C. Chen and B. Walker (eds.) Socio-cultural dimensions of climate change: charting the terrain [special section], *GeoJournal*, 79(6), 737-753.

Reports and Manuals

1. Holler, J., E. Drury, K. Acosta, and J. Gonzalez-Iwanciw. 2015. Chapter 5: Transparency and prioritization at the recipient level, in *Toward Mutual Accountability: The 2015 Adaptation Finance Transparency Gap Report*. AdaptationWatch. Available online at AdaptationWatch.org
2. Holler, J. 2015. *Open GIS for the Developing World: Lab Manual*. Middlebury College, Vermont, available at www.josephholler.com/files/GIS4DEV.pdf under a Creative Commons license.
3. Holler, J. 2010. *Mazingira ya Mweka 2010*, Swahili, (Mweka Environment 2010). Arusha, Tanzania.
4. Holler, J. 2009. *Mazingira ya Mweka*, Swahili, (Mweka Environment). Dar es Salaam, Tanzania.

Presentations

1. Holler, J. 2016. Panel: Spatial inequity in urban climate change adaptation planning. In *Association of American Geographers Annual Meeting: Spatializing Urban Climate Change Governance Panel Session*. San Francisco, CA. 4/1/2016.
2. Holler, J. 2016. Presentation: Prying open geocoded data on international aid and climate adaptation financing. In *Association of American Geographers Annual Meeting: Data in action: Tracing the open data experiment Special Session*. San Francisco, CA. 3/29/2016.
3. Drury, E. & Holler, J., 2016. Presentation: Leveraging geographic vulnerability analysis for national adaptation planning. In *The Gobeshona conference for research on climate change in Bangladesh*. Independent University, Bangladesh. 8/1/2016.
4. Holler, J. 2015. Presentation: Problems within the correlation between social networks and adaptive capacity: an empirical test of categorical resolution. In *Association of American Geographers Annual Meeting: Social Networks & Adaptation to Environmental Change Special Session*. Chicago, IL. 4/21/2015.
5. Holler, J. 2014. Presentation: Territories and spaces of planned climate change adaptation. In *Association of American Geographers Annual Meeting: (Re)Imagining Territory as Political Ecological Process Special Session*. Tampa, FL. 4/12/2014.
6. Holler, J. 2014. Panel: Open GIS projects in an advanced methods and techniques course. In *Association of American Geographers Annual Meeting: Innovative Methods for Teaching GIS and Cartography Panel Session*. Tampa, FL. 4/11/2014.
7. Holler, J. 2014. Presentation: Open GIS in the liberal arts. In *Pre-AAG Workshop on Open GIS*, Tampa, FL. 4/7/2014.
8. Holler, J. 2013. Presentation: Is sustainable adaptation possible? Determinants of adaptation on Mount Kilimanjaro. In *Association of American Geographers Annual Meeting: Nystrom Award Sessions*. Los Angeles, CA. 4/9 – 4/13/2013.
9. Holler, J. 2012. Presentation: Is sustainable adaptation possible? Determinants of adaptation on Mount Kilimanjaro. In *Environmental Studies Research Colloquium*. University of Mary Washington, Fredericksburg, VA. 11/7/2012.
10. Holler, J. 2012. Presentation: Climate change adaptation impacts and vulnerability: A framework for assessment. In *Initiative on Climate Adaptation Research and Understanding through the Social Sciences III*. Columbia University, New York, NY. 5/18 – 5/20/2012.
11. Holler, J. 2012. Presentation: Climate Adaptation in Tanzania: Building Adaptive Capacity or Reproducing Vulnerability? In *Association of American Geographers Annual Meeting: Resilience, Adaptation, and Innovation: Applied Geographies of Climate Change Special Session*. New York, NY. 2/24 – 2/28/2012.
12. Holler, J. 2011. Presentation: Adaptive capacity in a structurally adjusted environment. In *Rethinking Development: debating new directions in a time of crises*. Cornell University, Ithaca, NY. 10/10 – 10/12/2011.
13. Holler, J. 2011. Presentation: Networks of Knowledge, Assistance and Association for Adaptive Capacity on Mount Kilimanjaro, Tanzania. In *Association of American Geographers Annual Meeting: Social Aspects of Climate Change Special Session*. Seattle, WA. 4/12 – 4/16/2011.
14. Holler, J. 2010. Panel Presentation: Communicating climate change science and adaptation options in Tanzania. In *The African Climate Change Fellowship Program Fellow's Seminar*. International START Secretariat, Dar es Salaam, Tanzania. 6/26/2010.
15. Holler, J. 2010. Presentation: Challenges and bias in the analysis and representation of environmental change on Mount Kilimanjaro. In *Representing Reality: imagery in the cognitive, social and natural sciences*. University at Buffalo, Buffalo, NY. 5/13 – 5/15/2010.

16. Holler, J. 2010. Presentation: Law and space in the human/environment interactions of Mount Kilimanjaro. In *Association of American Geographers Annual Meeting: Legal Geography Special Session*. Washington, DC. 4/14 – 4/18/2010.
17. Holler, J. 2010. Poster: Water rights in the coupled human/environment systems of Mount Kilimanjaro. In *Conference on the Right to Water*. Syracuse University, Syracuse, NY. 3/29 – 3/30/2010.
18. Holler, J. 2010. Presentation: Environmental change, livelihood insecurity & opportunities for adaptation on Mount Kilimanjaro. In *GIScience IGERT & International Research Training Group Colloquium*. Videoconference of Universities of Buffalo, Bremen and Muenster, 2/19/2010.
19. Holler, J. 2009. Presentation: Developing a conceptual framework for human/environment interactions on Mount Kilimanjaro. In *Graduate Student Research Symposium*. University at Buffalo, Buffalo, NY. 11/20/2009.
20. Holler, J. 2009. Poster: Environmental change, economic insecurity, and opportunity for sustainable adaptations on Mount Kilimanjaro. In *Conference for Sustainability IGERTs 2*. Arizona State University, Tempe, AZ. 10/7 – 10/11/2009.
21. Holler, J. 2008. Poster: Community-integrated GIS and social networks for water resources management. In IGERT Annual Meeting. Arlington, VA. 5/18 – 5/20/2008.
22. Holler, J. 2008. Presentation: Social networks and community-integrated GIS for water resources management. In *Association of American Geographers Annual Meeting: Water and Development Special Session*. Boston, MA. 4/15 – 4/19/2008.
23. Holler, J. 2008. Presentation: Social networks and community-integrated GIS for water resources management. In *GIScience IGERT Colloquium*. University at Buffalo, Buffalo, NY. 4/11/2008.
24. Holler, J. 2007. Poster: Water resources management: building capacity with participatory GIS. In *Conference for Sustainability IGERTs*. University of Alaska, Fairbanks, AK. 10/10 – 10/13/2007.

Teaching and Advising

Middlebury College (GIS Teaching Fellow, Visiting Assistant Professor)

- GEOG 100 Place and Society (FA2015 and FA2016)
- GEOG 120 Fundamentals of Geographic Information Systems (co-instructor SP2014 and SP2015, teaching fellow FA2013 and FA2014)
- GEOG 205 Geographies of Nature, Power and Society (SP2016 and SP2017)
- GEOG 209 Human Geography of Hazards (SP 2017)
- GEOG 212 Urban Geography (FA2015 and FA2016)
- GEOG 328 GIS for the Developing World (SP2014 and SP2015)
- GEOG 428 Seminar in Geographies of Climate Change Adaptation and Development (SP 2016)
- Senior thesis or research advising: Amanda Werrell (Biology, SP2015), Nicolas DeGolia (Geography/Political Science, SP2016), Katie Chamberlain (Geography/Environmental Studies, SP2016), Lee Schlenker (Urban Studies, SP2016), and Parker Ziegler (Geography, SP2016).
- Student research assistant mentoring: Hayden Shea (Biology, FA2014, SP2015, FA2015) and Benjamin Brown (Computer Science, SP2016)

Brown University (Institute at Brown for Environment and Society Visiting Scholar)

- Student research assistant mentoring: Eliza Drury (SU2015, FA2015, SP2016), Kailani Acosta (FA2015)
- Senior research advising: Eliza Drury (SP2016)

University of Mary Washington (Visiting Assistant Professor)

- GEOG 102 Introduction to Human Geography (FA2012)
- GEOG 245 Environment and Society (SP2013)
- GEOG 250 Introduction to Geographic Information Systems and Cartography (FA2012, SP2013)

University at Buffalo, State University of New York

- GEO 221/505 Univariate Statistics (recitation instructor FA2007)
- GEO 330 Dynamics of International Business (assistant FA2009)
- GEO 334 International Environments and Commercial Problems (instructor SU2008, assistant SP2010)
- GEO 367 Urban Social Geography (assistant SP2010)
- GEO 481/506 Introduction to Geographic Information Systems (laboratory instructor SP2008)

Tanzania Secondary Schools (Peace Corps Volunteer)

- Form I: Mathematics, starting with Orientation to the English Language
- Forms I – VI: Information Technology
- Faculty and Staff: Consulting and tutoring in Information Technology

Guest Teaching / Lectures

- Memorial Hospital of Rhode Island / Brown University Family Medicine Residency: Participatory Mapping and GIS for Community Health skills practicum, August 16, 2016
- Memorial Hospital of Rhode Island / Brown University Family Medicine Residency: Health Geography Primer for Rhode Island Family Medicine lecture, July 26, 2016
- Middlebury College: Introduction to Swahili, January 2013
- University of Mary Washington: Cultural Leadership in Tanzania, SP2013
- Berry College: field trip to Jane Goodall Institute's Roots & Shoots, Kilimanjaro Region, SU2009
- Jane Goodall Institute, Tanzania: Training of volunteers and community groups; field trips and service projects with primary and secondary schools, SP2009, SU2009, FA2010
- Mweka College of African Wildlife Management: Geographic Information Systems, FA2010

Membership in Professional Organizations

Association of American Geographers (AAG)

AAG Specialty Groups: Cultural & Political Ecology, Development Geographies, Geographic Information Science & Systems, Human Dimensions of Global Change

Professional Service

- Director, Development Geographies Specialty Group of the AAG. 4/2016 – Present.
- Reviewer: *The Professional Geographer*, *ACME*, *The Canadian Geographer*, *International Journal of Sociology and Anthropology*.
- Returned Peace Corps Volunteer, Speaker/Panelist at Ithaca College, University at Buffalo, Buffalo State College, University of Mary Washington, Middlebury College. 1/2006 – Present.

- Organizer and Discussant (with Peter Kedron), Special Sessions on Legal Geography, Association of American Geographers Annual Meeting, Washington D.C. 4/2010.
- Intern, Jane Goodall Institute Roots & Shoots Program in Dar es Salaam and Moshi, Tanzania. 1/2009 – 7/2009.
- Organizer, GIScience IGERT Colloquium Series and Orientation, University at Buffalo, 8/2008 – 12/2008.
- Organizer, Geography Graduate Student Research Symposium, University at Buffalo, 8/2007 – 5/2008.
- PhD Student Representative to the Geography Department Faculty, University at Buffalo, 8/2007 – 5/2008.
- Information Technology Volunteer, Peace Corps Tanzania, 9/2003 – 12/2005.

Academic and Professional Development

- Seminar: Innovations in Teaching GIS, Middlebury College, Middlebury, VT. 9/9 – 12/6/2013 and 9/9 – 12/5/2014
- Workshop: Middlebury College 26th Annual Retreat on Teaching Writing, Pittsford, VT. 8/20 – 8/21/2013
- Conference: Southeastern Division of the Association of American Geographers Annual Meeting, Asheville, NC, 11/18 – 11/20/2012
- Conference: Where Now? Moving Beyond Traditional Legal Geographies, University at Buffalo Law School, 4/19 – 4/20/2012
- Forum: Education + Capacity Building + Climate Change: a strategy for collective action in Africa, START Secretariat, Dar es Salaam, Tanzania, 6/27 – 7/1/2010.
- Conference: Working Forests in the Tropics: partnering research with practice for conservation and development, University of Florida, Gainesville. 10/6 – 10/7/2008.
- Conference: GIScience 2008, Park City, Utah. 9/23 – 9/26/2008.
- Workshop: Engineering for Stream Ecosystem Restoration, University at Buffalo Environmental Engineering and ERIE IGERT. 6/2 – 6/19/2008.
- Conference: 4th Annual GIS and Public Health Day, Albany, NY. 4/29/2008.
- Workshop: Vespucci Summer Institute on Geographic Information Science, Tuscany, Italy. 6/10 – 6/15/2007.
- Forum: ATHGO International 3rd Annual Global Forum: Becoming One with the Environment, United Nations Headquarters, New York. 6/6 – 6/8/2007.
- Certification: Advanced Swahili Language, Peace Corps, Tanzania. 2005.
- Study Abroad: Archeology fieldwork and field studies, Peru. Summer 2002.
- Study Abroad: Semester at Sea (University of Pittsburgh) visiting: Cuba, Brazil, South Africa, Kenya, India, Malaysia, Viet Nam, Hong Kong, China, Japan. Spring 2001.