

Heather Fawn Randell

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ACADEMIC APPOINTMENTS

Assistant Professor of Rural Sociology and Demography 2019 - Present
Department of Agricultural Economics, Sociology, and Education
Pennsylvania State University, University Park, PA

Postdoctoral Research Associate 2018 – 2019
Maryland Institute for Applied Environmental Health (MIAEH), University of Maryland School of
Public Health, College Park, MD
Faculty Affiliate, Maryland Population Research Center

Postdoctoral Fellow 2016 – 2018
National Socio-Environmental Synthesis Center (SESYNC), University of Maryland – College Park

EDUCATION

PhD, Department of Sociology, Brown University, Providence, RI 2016
Demography Trainee, Population Studies & Training Center
Dissertation: “Hydropower and the dynamics of displacement: Forced migration and agricultural
livelihoods in the Brazilian Amazon”
Committee: Leah VanWey (chair), David Lindstrom, Michael White, Clark Gray (UNC)

MEM, Nicholas School of the Environment, Duke University, Durham, NC 2008
Certificate in Global Health, Duke Global Health Institute
Master’s Thesis: “Environmental management for malaria control: Knowledge and practices in
Mvomero District, Tanzania”

BS, Biology, Cornell University, College of Agriculture and Life Sciences, Ithaca, NY 2005
Cum Laude

RESEARCH INTERESTS

Social and health impacts of climate change; environmental migration; food security and nutrition;
dam-induced displacement; environmental change and rural livelihoods; social capital and networks.

PUBLICATIONS

Randell, H & C Gray. (2019) Climate change and educational attainment in the global tropics.
Proceedings of the National Academy of Sciences. 116(18): 8840-8845.

Randell, H. (2018) The strength of near and distant ties: Social capital, environmental change, and
migration in the Brazilian Amazon. *Sociology of Development.* 4(4): 394-416.

- Randell, H.** (2017) Forced migration and changing livelihoods in the Brazilian Amazon. *Rural Sociology*. 82 (3): 548-573.
- Randell, H & C Gray.** (2016) Climate variability and educational attainment: Evidence from rural Ethiopia. *Global Environmental Change*. 41: 111-123.
- Randell, H.** (2016) The short-term impacts of development-induced displacement on wealth and subjective well-being in the Brazilian Amazon. *World Development*. 87: 385-400.
- Randell, H.** (2016) Structure and agency in development-induced forced migration: The case of Brazil's Belo Monte Dam. *Population and Environment*. 37 (3): 265-287.
- Randell, H & L VanWey.** (2014) Networks versus need: Drivers of urban out-migration in the Brazilian Amazon. *Population Research and Policy Review*. 33 (6): 915-936.
- Dickinson, K, **H Randell**, R Kramer, & E Shayo. (2012) Socioeconomic status and malaria-related outcomes in Mvomero District, Tanzania. *Global Public Health*. 7 (4): 384-399.
- Le Menach, A, AJ Tatem, JM Cohen, SI Hay, **H Randell**, AP Patil, & DL Smith. (2011) Travel risk, malaria importation and malaria transmission in Zanzibar. *Scientific Reports*. 1 (93).
- Randell, H**, K Dickinson, E Shayo, L Mboera & R Kramer. (2010) Environmental management for malaria control: Knowledge and practices in Mvomero, Tanzania. *EcoHealth*. 7 (4): 507-516.
- Pimentel, D, S Cooperstein, **H Randell**, D Filiberto, S Sorrentino, B Kaye, C Nicklin, J Yagi, J Brian, J O'Hern, A Habas, & C Weinstein. (2007) The ecology of increasing diseases: Population growth and environmental degradation. *Human Ecology*. 35 (6): 653-668.

PUBLIC SCHOLARSHIP

- Randell, H.** (2019) Climate change may weaken children's education in the tropics. *New Security Beat*. The Wilson Center. May 7, 2019, www.newsecuritybeat.org/2019/05/climate-change-weaken-childrens-education-tropics/.

UNDER REVIEW

- Randell, H**, C Jiang, X-Z Liang, R Murtugudde, & A Sapkota. The compound effects of natural disasters and monsoon rainfall anomalies on food security in Nepal: Implications for a changing climate. Under review.
- Alexander, S, K Jones, N Bennett, M Cox, M Crosas, E Game, J Geary, RD Hardy, J Johnson, S Karcher, N Motzer, J Pittman, **H Randell**, J Silva, P da Silva, C Strasser, C Strawhacker, A Stuhl, & N Weber. Enhancing sustainability science, policy, and practice through qualitative data sharing. Revise and resubmit in *Nature Sustainability*.
- Randell, H.** Heat, mortality, and health. Under review in *Handbook on Population and Environment*.

MANUSCRIPTS IN PREPARATION

Thiede, B, **H Randell**, & C Gray. Climate change and lifetime migration in the global tropics.

Lindstrom, D & **H Randell**. Household vulnerability and population mobility in southwest Ethiopia.

Randell, H, C Gray, & K Grace. Stunted from the start: Early life climate and child undernutrition in Ethiopia.

Klein, P & **H Randell**. Countering internal colonialism: Hydropower development, collective action, and environmental justice in the Brazilian Amazon.

Randell, H, K Grace, & M Bakhtsiyarava. Climate, infant care, and child undernutrition: Evidence from rural Ethiopia.

EXTERNAL GRANTS

2017-2020 NSF OISE-1658251. IRES: People, Power, and Rivers: Social-ecological Dynamics of Hydroelectric Development in Northern Mongolia. Olaf Jensen (PI), Heather Randell (co-I), Susan Crate (co-I), Bud Mendee (co-I), Enerel Enee (co-I), Kristen Hunter-Thompson (co-I). \$249,971.

2014-2015 NSF Sociology SBE-1434020. Doctoral Dissertation Research: Forced Migration and Economic Development. Leah VanWey (PI), Heather Randell (co-PI). \$10,792.

AWARDS AND FELLOWSHIPS

2015-2016 Institute at Brown for Environment & Society (IBES) Graduate Fellowship

2014-2015 Department of Sociology Dissertation Fellowship

2014 Center for Latin American & Caribbean Studies Brazil Research Grant

2011-2013 NICHD Population Studies and Training Center Fellowship

2011 Tinker Field Research Grant, Center for Latin American & Caribbean Studies

2011 National Science Foundation Graduate Research Fellowship Honorable Mention

2007 Lazar Scholarship for International Environmental Leadership, Duke University

INVITED TALKS

2018 Links between climate change, education, and child nutrition in Ethiopia. *MIAEH Seminar Series*, University of Maryland, College Park, October 9, 2018.

Too hot for school: Climate change and education in the global tropics. *Department of Geography & Environmental Systems Seminar Series*, University of Maryland, Baltimore County, March 28, 2018.

2017 The impact of climate change on educational attainment: Evidence from the global tropics. *Department of Geography Colloquium*, University of North Carolina at Chapel Hill, October 13, 2017.

The impact of climate change on educational attainment: Evidence from the global tropics. *Nicholas Institute for Environmental Policy Solutions and the University Program in Environmental Policy Seminar Series*, Duke University, October 12, 2017.

2016 Development, dams, and displacement in the Amazon: The case of Brazil's Belo Monte Hydroelectric Complex. *Displacement and the Making of the Modern World*, Watson Institute for International and Public Affairs, Brown University, October 18, 2016.

Hydropower and the dynamics of displacement: Forced migration and agricultural livelihoods in the Brazilian Amazon. *Program for Society and the Environment*, University of Maryland at College Park, March 23, 2016.

SELECTED CONFERENCE PRESENTATIONS

2019 (Upcoming) **Randell, H**, K Grace, & M Bakhtsiyarava. Climate, infant care, and child undernutrition: Evidence from rural Ethiopia. Paper to be presented at Demographic Responses to Changes in the Natural Environment, University of Wisconsin-Madison, October 24-25, 2019.

Randell, H & A Sapkota. The cumulative effects of climate change and natural disasters on food security: A natural experiment using the 2015 Nepal earthquake. Paper presented at the Population Association of America Annual Meeting, Austin, TX, April 10-13.

Klein, P & **H Randell**. Countering internal colonialism: Hydropower development, collective action, and environmental justice in the Brazilian Amazon. Paper presented at the American Association of Geographers Annual Meeting, Washington, DC, April 3-7.

2018 **Randell, H**. Invited panelist for session on Temporality, Agency, and Migration in the Context of Climate Change. American Association of Geographers Annual Meeting, New Orleans, LA, April 10-14.

2017 **Randell, H** & C Gray. Climate change and educational attainment in the global tropics. Paper presented at the Population Association of America Annual Meeting, Chicago, IL, April 27-29.

Randell, H & C Gray. Livelihood adaptation to climate change in rural Ethiopia. Paper presented at the American Association of Geographers Annual Meeting, Boston, MA, April 5-9.

2016 **Randell, H** & P Klein. Countering internal colonialism: Hydropower development, collective action, and environmental justice in the Brazilian Amazon. Paper presented at the International Conference on Development in Question, Cornell University, Ithaca, NY, October 6-8.

Randell, H. Development-induced displacement, productive investments, and income diversification in the Brazilian Amazon. Paper presented at the Annual Meeting of the American Sociological Association, Seattle, WA, August 20-23.

- Randell, H** & C Gray. Climate shocks and educational investments in rural Ethiopia. Paper presented at the Population Association of America Annual Meeting, Washington, DC, March 31- April 2.
- Randell, H.** The impacts of development-induced displacement on wealth, inequality, and subjective well-being in the Brazilian Amazon. Paper presented at the Population Association of America Annual Meeting, Washington, DC, March 31-April 2.
- 2015 **Randell, H.** Structure and agency in development-induced forced migration: The case of Brazil's Belo Monte Dam. Paper presented at the Annual Meeting of the American Sociological Association, Chicago, IL, Aug. 22- 25, 2015 and the Population Association of America Annual Meeting, San Diego, CA, April 30- May 2.
- 2014 Lindstrom, D & **H Randell.** Household vulnerability and population mobility in southwest Ethiopia. Paper presented at the Population Association of America Annual Meeting, Boston, MA, May 1-3.
- 2013 **Randell, H.** & L VanWey. Networks versus need: Drivers of urban out-migration in the Brazilian Amazon. Paper presented at the Population Association of America Annual Meeting, New Orleans, LA, April 11- 13.
- 2012 **Randell, H.** & L VanWey. Family networks and urban out-migration in the Brazilian Amazon. Poster presented at the Population Association of America Annual Meeting, San Francisco, CA, May 3-5.

TEACHING EXPERIENCE

Instructor

Methods of Survey Data Analysis, graduate level, Penn State University (Fall 2019)
 Socio-Ecological Research in Mongolia (co-taught) (Spring 2018, Spring 2019)
 Climate Change and Health, University of Maryland School of Public Health (Fall 2017, Spring 2019)
 Data Management and Regression Using Stata, Brown University (Fall 2013)

Teaching Assistant

Multivariate Statistical Methods II, graduate level, Brown University (Spring 2014)
 Multivariate Statistical Methods I, graduate level, Brown University (Fall 2013)
 Climate and Climate Change, Brown University (Fall 2012)

RESEARCH EXPERIENCE

- 2014 **Data Collection Coordinator**, *Belo Monte Rural Socioeconomic Household Survey*, Altamira, Brazil
- 2010 **Evaluation Researcher**, *Millennium Villages Project*, Koraro, Ethiopia
- 2008-10 **Research Assistant**, *Resources for the Future*, Washington, DC
- 2007 **Researcher**, *Malaria Knowledge & Practices Survey*, Mvomero, Tanzania

SERVICE TO THE PROFESSION

Associate Editor, *Frontiers in Ecology and the Environment* (2017 – present)

Manuscript Reviewer

Ambio, Applied Geography, BMJ Global Health, The Cambridge Handbook of Environmental Sociology, Demography (3), EcoHealth, Nature Climate Change, Population and Development Review, Population and Environment (3), Population Research and Policy Review, Proceedings of the National Academy of Sciences, Rural Sociology (2), Sociology of Development (2), World Development

Reviewer, *Maryland Sea Grant Coastal Resilience and Sustainability Fellowship* (2016)

Discussant, *Internal Migration*, Population Association of America Annual Meeting, Austin, TX, April 10-13, 2019.

Session Chair, *Population and Land Use*, Population Association of America Annual Meeting, Washington, DC, March 31- April 2, 2016.

PROFESSIONAL MEMBERSHIPS

Population Association of America
American Association of Geographers

TRAINING

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| 2016 | <i>Teaching about Socio-Environmental Synthesis with the Case Studies Approach</i> , SESYNC, Annapolis, Maryland |
| 2015 | <i>Summer Workshop on Social Network Analysis</i> , LINKS Center for Social Network Analysis, University of Kentucky, Lexington |
| 2014 | <i>Graduate Student Workshop on Environmental Demography</i> , University of Colorado at Boulder |