

# Heather Fawn Randell

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## ACADEMIC APPOINTMENTS

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- 2019-present Assistant Professor of Rural Sociology and Demography  
Department of Agricultural Economics, Sociology, and Education  
Pennsylvania State University  
Faculty Affiliate, Population Research Institute
- 2018-2019 Postdoctoral Research Associate  
Maryland Institute for Applied Environmental Health (MIAEH)  
University of Maryland School of Public Health  
Faculty Affiliate, Maryland Population Research Center
- 2016-2018 Postdoctoral Fellow  
National Socio-Environmental Synthesis Center (SESYNC)

## EDUCATION

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- 2016 PhD, Sociology, Brown University  
Demography Trainee, Population Studies & Training Center
- 2008 MEM, Nicholas School of the Environment, Duke University  
Certificate in Global Health, Duke Global Health Institute
- 2005 BS, Biology, Cornell University, *cum laude*

## RESEARCH INTERESTS

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

## PEER REVIEWED ARTICLES

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- Randell, H, C Gray, & K Grace. Stunted from the start: Early life weather and child undernutrition in Ethiopia. Forthcoming in *Social Science & Medicine*.
- Alexander, S, K Jones, N Bennett, A Budden, 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. (2020) Qualitative data sharing and synthesis for sustainability science. *Nature Sustainability*. 3: 81-88.
- 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.

## **UNDER REVIEW**

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- Randell, H, K Grace, & M Bakhtsiyarava. Climatic conditions and infant care: Implications for child nutrition in rural Ethiopia. Revise and resubmit in *Population & Environment*.
- 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.

## **MANUSCRIPTS IN PREPARATION**

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- Lindstrom, D & H Randell. Household vulnerability and population mobility in southwest Ethiopia.
- Thiede, B, H Randell, & C Gray. Climate change and lifetime migration in the global tropics.
- Randell, H & P Klein. Countering internal colonialism: Hydropower development, collective action, and social justice in the Brazilian Amazon.

Reyes, C & H Randell. Cumulative exposure to household shocks and children's well-being in Peru.

## BOOK CHAPTERS

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Randell, H. Heat, mortality, and health. *Handbook on Population and Environment*. Conditionally accepted.

## POPULAR MEDIA PUBLICATIONS

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Randell, H. (2019) Social capital and environmental migration: Insights from the Brazilian Amazon and implications for climate change. *Sociological Insights for Development Policy*. Vol 4, No. 4. [https://sociologyofdevelopment.files.wordpress.com/2019/12/4\\_4\\_randell\\_dec\\_2019.pdf](https://sociologyofdevelopment.files.wordpress.com/2019/12/4_4_randell_dec_2019.pdf).

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/](http://www.newsecuritybeat.org/2019/05/climate-change-weaken-childrens-education-tropics/).

## EXTERNAL GRANTS

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2017-2021 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.

## INTERNAL GRANTS

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2019-2020 Penn State-Monash University Collaboration Fund. Transformative Resilience in the Context of Climate Change. Paige Castellanos (PI), Becky Batagol (Monash PI), Elizabeth Ransom (co-I), Ann Tickamyer (co-I), Carolyn Sachs (co-I), Heather Randell (co-I), Margaret Alston (Monash co-I), Annet Hoek (Monash co-I), Eli Court (Monash co-I). AUD\$45,000.

## AWARDS AND FELLOWSHIPS

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2019 Roy C. Buck Faculty Award, College of Agricultural Sciences, Penn State  
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 PRESENTATIONS

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2020 Penn State, Department of Meteorology and Atmospheric Science  
UC Santa Barbara, Broom Center for Demography

- 2018 University of Maryland, Maryland Institute for Applied Environmental Health  
UMBC, Department of Geography & Environmental Systems
- 2017 University of North Carolina at Chapel Hill, Department of Geography  
Duke University, Nicholas School of the Environment
- 2016 Brown University, Watson Institute for International and Public Affairs  
University of Maryland, Program for Society and the Environment

## **SELECTED CONFERENCE PRESENTATIONS**

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- 2019 Randell H. Impactos socioeconômicos de curto prazo dos deslocamentos de populações rurais afetadas por Belo Monte. Paper presented at Seminário Sobre os Impactos de Longo Prazo na Amazônia, Unicamp, Limeira, SP, Brazil, November 25-27.
- Randell, H, K Grace, & M Bakhtsiyarava. Climate, infant care, and child undernutrition: Evidence from rural Ethiopia. Paper presented at Demographic Responses to Changes in the Natural Environment, University of Wisconsin, October 24-25.
- 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

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### ***Instructor***

CED 230: Development Issues in the Global Context, Penn State (Spring 2020)  
RSOC 573: Methods of Survey Data Analysis, graduate level, Penn State (Fall 2019)  
Socio-Ecological Research in Mongolia (co-taught) (Spring 2018, Spring 2019)  
Climate Change and Health, University of Maryland (Fall 2017, Spring 2019)

### ***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)

## GRADUATE STUDENT ADVISING

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*PhD committee member:* Carolyn Reyes (RSOC)

## SERVICE ACTIVITIES

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### ***Service to the Department***

M.E. John Seminar Committee (2019-)

### ***Service to the Profession***

Contributing Author, Intergovernmental Panel on Climate Change (IPCC) WGII Sixth Assessment

## Report, Chapter 9: Africa

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, Global Environmental Change, Nature Climate Change, Population and Environment (4), Population and Development Review, Population Research and Policy Review, Proceedings of the National Academy of Sciences, Rural Sociology (2), Sociology of Development (2), Social Science & Medicine, World Development, World Development Perspectives

### Population Association of America

Session Organizer (2020)

Discussant (2019)

Session Chair (2016)

## 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