

Heather Fawn Randell

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ACADEMIC APPOINTMENTS

- 2023-present Assistant Professor of Global Policy
Humphrey School of Public Affairs, University of Minnesota-Twin Cities
Faculty Affiliate, Minnesota Population Center
- 2019-2023 Assistant Professor of Rural Sociology and Demography
Department of Agricultural Economics, Sociology, and Education, Penn State
Cofunded Faculty, Social Science Research Institute
Faculty Associate, Population Research Institute
- 2018-2019 Postdoctoral Research Associate, Maryland Institute for Applied Environmental Health
University of Maryland School of Public Health
Faculty Affiliate, Maryland Population Research Center
- 2016-2018 Postdoctoral Fellow, National Socio-Environmental Synthesis Center (SESYNC)

EDUCATION

- 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

Health and well-being impacts of climate change; dam building and displacement; environmental change and sustainable development; food security and nutrition; migration; rural livelihoods.

PEER-REVIEWED ARTICLES (‡ Graduate student at time of submission)

- Randell, Heather** & Andrew Curley. (2023) Dams and tribal land loss in the United States. *Environmental Research Letters*. 18: 094001.
- Reyes, Carolyn‡ & **Heather Randell**. (2023) Household shocks and adolescent well-being in Peru. *Population Research and Policy Review*. 43(3): 44.
- Lindstrom, David, **Heather Randell**, and Tefera Belachew. (2022) The migration response to food insecurity and household shocks in southwestern Ethiopia. Published online ahead of print in *International Migration Review*.

- Randell, Heather**, Clark Gray, & Elizabeth Shayo. (2022) Climatic conditions and household food security: Evidence from Tanzania. *Food Policy*. 112: Article 102362.
- Thiede, Brian, **Heather Randell**, & Clark Gray. (2022) The childhood origins of climate-induced mobility and immobility. *Population and Development Review*. 48(3): 767-793.
- Southard, Emily[‡] & **Heather Randell**. (2022) Climate change, agrarian distress, and the feminization of agriculture in South Asia. *Rural Sociology*. 87(3): 873-900.
- Randell, Heather** & Peter Klein. (2021) Hydropower development, collective action, and environmental justice in the Brazilian Amazon. *Society & Natural Resources*. 34(9): 1232-1249.
- Randell, Heather**, Chengsheng Jiang, Xin-Zhong Liang, Raghu Murtugudde, & Amir Sapkota. (2021) Food insecurity and compound environmental shocks in Nepal: Implications for a changing climate. *World Development*. 145: Article 105511.
- Randell, Heather**, Kathryn Grace, & Maryia Bakhtsiyarava[‡]. (2021) Climatic conditions and infant care: Implications for child nutrition in rural Ethiopia. *Population and Environment*. 42(4): 524-552.
- Randell, Heather**, Clark Gray, & Kathryn Grace. (2020) Stunted from the start: Early life weather and child undernutrition in Ethiopia. *Social Science & Medicine*. 261: Article 113234.
- 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, **Heather 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, Heather** & Clark Gray. (2019) Climate change and educational attainment in the global tropics. *Proceedings of the National Academy of Sciences*. 116(18): 8840-8845.
- Randell, Heather**. (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, Heather**. (2017) Forced migration and changing livelihoods in the Brazilian Amazon. *Rural Sociology*. 82 (3): 548-573.
- Randell, Heather** & Clark Gray. (2016) Climate variability and educational attainment: Evidence from rural Ethiopia. *Global Environmental Change*. 41: 111-123.
- Randell, Heather**. (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, Heather**. (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, Heather** & Leah VanWey. (2014) Networks versus need: Drivers of urban out-migration in the Brazilian Amazon. *Population Research and Policy Review*. 33 (6): 915-936.

Dickinson, Kathryn, **Heather Randell**, Randall Kramer, & Elizabeth Shayo. (2012) Socioeconomic status and malaria-related outcomes in Mvomero District, Tanzania. *Global Public Health*. 7 (4): 384-399.

Le Menach, Arnaud, Andrew Tatem, Justin Cohen, Simon Hay, **Heather Randell**, Anand Patil, & David Smith. (2011) Travel risk, malaria importation and malaria transmission in Zanzibar. *Scientific Reports*. 1 (93).

Randell, Heather, Kathryn Dickinson, Elizabeth Shayo, Leonard Mboera & Randall Kramer. (2010) Environmental management for malaria control: Knowledge and practices in Mvomero, Tanzania. *EcoHealth*. 7 (4): 507-516.

Pimentel, D, S Cooperstein, **Heather 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

Southard, Emily[‡] & **Heather Randell**. Food security and women's mental health in the Chitwan Valley of Nepal.

Chi, G, S Zhou, M Mucioki, J Miller, E Korkut, L Howe, J Yin, D Holen, **Heather Randell**, A Akyildiz, K Halvorsen, L Fowler, J Ford, & A Tickamyer. Climate impacts on migration in the Arctic North America: Existing evidence and research recommendations. Revise and resubmit in *Regional Environmental Change*.

MANUSCRIPTS IN PREPARATION

Randell, Heather, Clark Gray, Monica Grant, Galina Shinkareva, Wondy Seyoum, & Catherine O'Reilly. Climate change, aquatic conditions, and household food security: Evidence from Lake Malawi.

Randell, Heather, Kathryn Grace, Thais Tartalha, Shrad Shukla, & Andrew Verdin. Prenatal heat exposure and adverse birth outcomes in Brazil.

Ghebremicael, Sara[‡], Clark Gray, & **Heather Randell**. Climate change and food security in Ethiopia.

Joshi, Supriya[‡] & **Heather Randell**. Climate change and intimate partner violence in Nepal.

OTHER PUBLICATIONS

Randell, Heather. (2023) Review of "Migration, Health, and Inequalities: Critical Activist Research across Ecuadorean Borders". *Social Forces*.

Randell, Heather. (2022) The challenges of dam-induced displacement: Reducing risks and rethinking hydropower. *One Earth*. 5(8): 849-852.

Randell, Heather. (2022) Heat, mortality, and health. *International Handbook of Population and Environment*. Cham: Springer Nature Switzerland.

EXTERNAL GRANTS

- 2022-2024 NIH/NICHD. R21: Development-Induced Displacement and Women and Children's Well-Being. (\$426,250 total costs).
Role: Principal Investigator.
- 2022-2024 NIH/NICHD. R03: The Resilience of Food Security to Climate Shocks. (\$170,721 total costs)
Role: Co-Investigator (Principal Investigator Clark Gray, UNC).
- 2021-2023 NSF. EAGER: SAI: Collaborative Research: Bridging the Arctic: Community-Driven Innovation for Resilient Bridges in Remote Communities. (\$259,112 total costs).
Role: Co-Principal Investigator (Principal Investigator Guangqing Chi, Penn State)
- 2021-2024 NSF OISE-2107275. IRES Track I: Manifestations of Climate Change in Extreme Events. (\$379,004 total costs).
Role: Co-Principal Investigator (Principal Investigator Julio Urbina, Penn State)
- 2020-2023 NSF ICER-1927827. NNA Track 1: Pursuing Opportunities for Long-term Arctic Resilience for Infrastructure and Society (POLARIS). (\$3,000,000 total costs).
Role: Senior Personnel (Principal Investigator Guangqing Chi, Penn State)
- 2017-2022 NSF OISE-1658251. IRES: People, Power, and Rivers: Social-ecological Dynamics of Hydroelectric Development in Northern Mongolia. (\$249,971 total costs).
Role: Collaborator (Principal Investigator Olaf Jensen, University of Wisconsin)
- 2014-2015 NSF Sociology SBE-1434020. Doctoral Dissertation Research: Forced Migration and Economic Development. (\$10,792 total costs).
Role: Co-Principal Investigator (Principal Investigator Leah VanWey, Brown University)

AWARDS AND FELLOWSHIPS

- 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 National Science Foundation Graduate Research Fellowship Honorable Mention

INVITED PRESENTATIONS

- 2024 University of Minnesota, Interdisciplinary Center for the Study of Global Change
- 2023 University of Minnesota, Minnesota Demography and Aging Seminar Series
Association for Economic Research of Indigenous Peoples
- 2022 The Wilson Center
Federal University of Minas Gerais, Brazil
- 2021 Penn State, Department of Geography
- 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

CONFERENCE PRESENTATIONS

- 2024 (Upcoming) Randell, H, C Gray, M Grant, G Shinkareva, W Seyoum, & C O'Reilly. Climate change, aquatic conditions, and household food security: Evidence from Lake Malawi. Paper presented at the Population Association of America Annual Meeting, Columbus, OH, April 17-20.
- 2022 Randell, H, K Grace, & T Tartalha. Extreme weather events and adverse birth outcomes in Brazil. Paper presented at the Population Association of America Annual Meeting, Atlanta, GA, April 6-9.
- Randell, H, C Gray, & E Shayo. Climatic conditions and household food security: Evidence from Tanzania. Paper presented at the Population Association of America Annual Meeting, Atlanta, GA, April 6-9.
- 2020 Randell, H, C Gray, & E Shayo. Climate variability, food security, and resilience in Tanzania. Paper presented at the Association for Public Policy and Management (APPAM) Fall Research Conference. Virtual, November 11-13.
- 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. Hydropower and the dynamics of displacement: Dam-induced forced migration in the Brazilian Amazon. Invited panelist at the Latin American Studies Association International Congress, Washington, DC, May 29- June 1.
- 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.

2008 Randell, H. Environmental management for malaria control: Knowledge and practices in Mvomero District, Tanzania. Paper presented at the EcoHealth 2008 Conference, Mérida, Mexico, Dec. 1-5.

TEACHING EXPERIENCE

Instructor of Record

University of Minnesota

PA 5531 Global Sustainable Development in Practice (Spring 2024)

PA 5031 Statistics for Public Affairs (Fall 2023)

Penn State

CED 230 Development Issues in the Global Context (Spring 2020, Fall 2020, 2021)

RSOC 573 Multivariate Statistics for the Social Sciences (Fall 2019, Spring 2021, 2022, 2023)

University of Maryland, College Park

PHSC 426 Climate Change and Health (Fall 2017, Spring 2019)

Teaching Assistant

Brown University

Multivariate Statistical Methods II, graduate level (Spring 2014)

Multivariate Statistical Methods I, graduate level (Fall 2013)

Climate and Climate Change (Fall 2012)

GRADUATE STUDENT ADVISING

University of Minnesota

MPP advisor: Parker Johnson, Garrett Schoonover

PhD committee member: Ashwini Shridhar (HHH), Ruthie Burrows (GEOG)

Penn State

PhD committee co-chair: Carolyn Reyes (RSOC — graduated 2022)

PhD committee member: Sara Bonilla (RSOC), Yining Feng (RSOC), Kaitlin Fischer (RSOC), Michaela Hoffelmeyer (RSOC), Jordan Jackson (RSOC), Supriya Joshi (RSOC), Jessica Miller (RSOC), Shuai Zhou (RSOC), Lilly Zeitler (GEOG)

Masters committee member: Abbie Robinson (RSOC)

External Member

Sara Ghebremicael (University of North Carolina at Chapel Hill GEOG)

PROFESSIONAL SERVICE ACTIVITIES

University of Minnesota

Service to the University

Search Committee Member, Department of Sociology and ISRDI faculty position in Demography (2023)

Penn State

Service to the Department

M.E. John Seminar Committee (2019–2022)

Rural Sociology Graduate Program Committee (2021–present)

Service to the University

Internal Advisory Board member, Population Research Institute (PRI) (2022-present)

Founder and Organizer, Population Research Institute (PRI) Working Group on Environmental Demography (2020–2022)

Search Committee Member, Institute for Energy and the Environment and Department of Biobehavioral Health co-funded faculty position in Water and Health (2022)

Service to the Profession

Contributing Author, Intergovernmental Panel on Climate Change (IPCC) WGII Sixth Assessment Report, Chapter 9: Africa

Review panel member, NIH/NIEHS Exploratory Grants for Climate Change and Health Research Center Development (2023)

Manuscript Reviewer: *Ambio*, *Applied Geography*, *BMJ Global Health*, *The Cambridge Handbook of Environmental Sociology*, *Demography*, *EcoHealth*, *Environmental Development*, *Food Policy*, *Global Environmental Change*, *Health and Place*, *Journal of Development Studies*, *Journal of Latin American Geography*, *Nature Climate Change*, *PLOS Climate*, *Population and Environment*, *Population and Development Review*, *Population Research and Policy Review*, *Proceedings of the National Academy of Sciences*, *Rural Sociology*, *Scientific Data*, *Sociology of Development*, *Social Science & Medicine*, *Springer Nature Social Sciences*, *Vienna Yearbook of Population Research*, *World Development*, *World Development Perspectives*

Associate Deputy Editor, *Climatic Change* (2024-present)

Associate Editor, *Frontiers in Ecology and the Environment* (2017–2023)

Population Association of America

Session Organizer (2020, 2022)

Discussant (2019, 2021, 2023)

Session Chair (2016)

Program Committee (2022)

Poster Judge (2022)

MEDIA COVERAGE

The Guardian (2023). More than 1m acres of Indigenous land flooded by dams, new study finds.

Available at: <https://www.theguardian.com/us-news/2023/aug/09/indigenous-land-flooded-dams-study-colonial-settler>.

The Hill (2023). More than a million acres of US tribal lands submerged by dams: study. Available at:

<https://thehill.com/policy/energy-environment/4144655-more-than-a-million-acres-of-us-tribal-lands-submerged-by-dams-study/>.

Time Magazine (2020). The Debate About Reopening Schools Is a Preview of Climate-Related

Disruption to Come. Available at: <https://time.com/5880680/climate-change-reopening-schools/>.

New Security Beat (2016). Could Climate Change Keep Kids Out of School? Q&A With Environmental Sociologist Heather Randell. The Wilson Center. November 2, 2016.
<https://www.newsecuritybeat.org/2016/11/climate-change-kids-school-qa-environmental-sociologist-demographer-heather-randell/>.

PUBLIC SCHOLARSHIP (PODCASTS, BLOG POSTS, ONLINE ARTICLES)

Southard, Emily & Heather Randell. (2022). Intensifying heat waves threaten South Asia's struggling farmers – many of them women. *The Conversation*. <https://theconversation.com/intensifying-heat-waves-threaten-south-asias-struggling-farmers-many-of-them-women-184378>

Randell, Heather & Jonathan Van Ness. (2021). Are Dams Cute...Or Not So Cute? [Podcast] *Getting Curious with Jonathan Van Ness*.
<https://www.jonathanvanness.com/gettingcurious/episode/1c378a02/are-dams-cute-or-not-so-cute-with-heather-randell>

Chi, Guangqing, Davin Holen, Heather Randell, Megan Mucioki, and Rebecca Napolitano. (2021) Rural Alaska needs new bridges as permafrost thaws and crossing river ice gets riskier – the infrastructure bill is only a start. *The Conversation*. <https://theconversation.com/rural-alaska-needs-new-bridges-as-permafrost-thaws-and-crossing-river-ice-gets-riskier-the-infrastructure-bill-is-only-a-start-169345>

Randell, Heather. (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

Randell, Heather. (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/