

# Andrew Zimmer

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## Curriculum Vitae

Montana State University · 226 Traphagen Hall · Bozeman, MT · 59717

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## Education

**PhD Geography** · University of Arizona 2022  
Dissertation: *Dynamics of Rural-Urban Food Systems in Southern Africa*

**MS Environmental Science & Technology** · Lancaster University, UK 2017

**BA Geography** · Lancaster University, UK 2016  
*Study-abroad at Oregon State University* 2015

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## Academic Appointments

**Postdoctoral Researcher**  
Department of Earth Sciences, Montana State University 2023 - present  
Geospatial Core Facility, Montana State University

**Graduate Instructor**  
School of Geography, Development & Environment University of Arizona 2021 - 2022

**Graduate Teaching Assistant**  
School of Geography, Development & Environment University of Arizona 2020 - 2022

**Graduate Research Assistant**  
School of Geography, Development & Environment University of Arizona 2018 - 2022

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## Research

### Peer-Reviewed Publications

- [13] Gerlak, AK, Guido, Z, Owen, G, Rodriguez McGoffin, S, Louder, E, Davies, J, Smith, KJ, **Zimmer, A**, Murviet, A, Meadow, A, Shrestha, P, Joshi, N. Stakeholder Engagement in the Co-Production of Knowledge for Environmental Decision-making. *World Development*. [Full Text](#).
- [12] Ross, A, Marcantonio, R, Miller-Graff, L, Pearson, A, Bunting, E, **Zimmer, A**. In Press. Does water insecurity mediate the relationship between climate variability and intimate partner violence in sub-Saharan Africa? *Climate and Development*. [Full Text](#).
- [11] Mack, EA, Marcantonio R, Bunting, E, Ross, A, **Zimmer, A**, Zulu, L, Gómez-Fernández, EL, Herndon, J Henebry, G. 2022. A Systematic Literature Review of Quantitative Studies Assessing the Relationship Between Water and Conflict on the African Continent. *Sustainability*. [Full Text](#).

- [10] **Zimmer, A**, Guido, Z, Davies, J, Joshi, N, Chilenga, A, Evans, T. 2022. Food Systems and Rural- Urban Linkages in African Secondary Cities. *Urban Transformations*. [Full Text](#).
- [9] Davies, J, Blekking, J, Hannah, C, **Zimmer, A**, Joshi, N, Anderson, P, Evans, T. 2022. Governance of traditional markets and rural-urban food systems in sub-Saharan Africa. *Habitat International*. [Full Text](#).
- [8] Hannah, C, Davies, J, Green, R, **Zimmer, A**, Anderson, P, Battersby, J, Baylis, K, Joshi, N, Evans, T. 2022. Persistence of open-air markets in the food systems of Africa's secondary cities. *Cities*. [Full Text](#).
- [7] Guido, Z, Lopus, S, Waldman, K, Hannah, C, **Zimmer, A**, Krell N, Knudson, C, Estes L, Caylor K, Evans, T. 2021. Perceived links between climate change and weather forecast accuracy: new barriers to tools for agricultural decision-making. *Climatic Change*. [Full Text](#).
- [6] Davies, J, Hannah, C, Guido, Z, **Zimmer, A**, McCann, L, Battersby, J, Evans, T. 2021. Barriers to urban agriculture in sub-Saharan Africa. *Food Policy*. [Full Text](#).
- [5] Mack, EA, Bunting, E, Herndon, J, Marcantonio, R, Ross, A, **Zimmer, A**. 2021. Conflict and its relationship to climate variability in sub-Saharan Africa. *Science of the Total Environment*. [Full Text](#).
- [4] Pearson, AL, Mack, EA, Ross, A, Marcantonio, R, **Zimmer, A**, Bunting, E, Culver-Smith, A, Miller JD, Evans, T. HWISE-RCN. 2021. Interpersonal Conflict over Water is Associated with Household Demographics, Domains of Water Insecurity, and Regional Conflict: Evidence from Nine Sites across Eight Sub-Saharan African Countries. *Water*. [Full Text](#).
- [3] Hannah, C, Giroux, S, Krell, N, Lopus, S, McCann, L, **Zimmer, A**, Caylor, K, Evans, T. 2021. Has the vision of a gender quota rule been realized for community-based water management committees in Kenya? *World Development*. [Full Text](#).
- [2] **Zimmer, A**, Guido, Z, Tuholske, C, Pakalniskis, A, Lopus, S, Caylor, K, Evans, T. 2020. Dynamics of population growth in secondary cities across southern Africa. *Landscape Ecology*. [Full Text](#).
- [1] Guido, Z, **Zimmer, A**, Lopus, S, Hannah, C, Gower, D, Waldman, K, Krell, N, Sheffield, J, Caylor, K, Evans, T. 2020. Farmer Forecasts: Impacts of seasonal rainfall expectations on agricultural decision-making in Sub-Saharan Africa. *Climate Risk Management*. [Full Text](#).

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## Presentations

*Invited \**

- [12] 2023. Demographic exposure to extreme heat and flooding. *Columbia University Climate School - Managed Retreat Conference*. Columbia University, New York, NY
- [11\*] 2023. Securing Technology Advantages II - Human Systems. *National Security Innovation Network - Critical Resource Summit*. Montana State University, Bozeman, MT.
- [10\*] 2023. Understanding the rural-urban-climate nexus in Africa. *Montana State University Department of Earth Sciences Colloquium*. Montana State University, Bozeman, MT.

- [9] 2023. Socio-environmental determinants of maize price volatility in southern Africa. *American Association of Geographers Annual Meeting*. Denver, CO.
- [8] 2022. Socio-environmental determinants of maize price volatility. *International Institute of Migration & Development: Food (In)Security and Migrants on the Move*. Online.
- [7] 2022. Dynamics of rural-urban food systems in southern Africa. *Center for Climate Adaptation Science & Solutions*. University of Arizona, Tucson, AZ.
- [6] 2021. Texting the climate: How farmers in Sub-Saharan Africa are meeting a changing future. *Terrain.org Article*. Online.
- [5] 2019. Rural-Urban Linkages of Maize Price in Zambia. *Commonwealth Geographic Bureau International Conference on Contemporary Issues in Food and Food Security*. Maputo, Mozambique.
- [4] 2019. Weather Forecasts, Farmer Perceptions and Adaptation to Climate Change in Sub-Saharan Africa. *American Association of Geographers Annual Meeting*. Washington, DC.
- [3] 2019. Patterns of urban growth in southern Africa. *Graduate Interdisciplinary Program (GIDP)*. University of Arizona, Tucson, AZ.
- [2] 2019. Texting the climate: How farmers in southern Africa are meeting the future. *Borderlands Brewing Public Science Talks*. Tucson, AZ.
- [1] 2019. Small Scale Farmers Strategies to Mitigate Fall Armyworm Impact in Rural Zambia. *Food Security and Social Justice Network*. University of Arizona, Tucson, AZ.
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## Teaching

### Instructor of Record

GEOG230 - Our Changing Climate

Winter 2021 (online)  
Summer 2022 (online)  
Fall 2022 (in-person)

### Teaching Assistant

GEOG230 - Our Changing Climate

Fall 2021  
Spring 2022

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## Awards, Fellowships & Grants

*Roots for Resilience Data Science Assistantship*  
Data Science Institute, University of Arizona  
Amount: \$7,000

2021

*Global Change Minor Program Summer Research Grant*  
Graduate College, University of Arizona  
Amount: \$1,500

2021

<i>Carson Scholar Science Communication Program</i>	2019
Institute of the Environment, University of Arizona	
Amount: \$5,000	
<i>Sustainable Development Goals Research Grant</i>	2019
School of Geography, University of Arizona	
Amount: \$950	

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## Conferences, Workshops & Training

Columbia University Climate School - Managed Retreat Conference. <i>New York, NY</i>	2023
American Association of Geographers Annual Meeting. <i>Denver, CO.</i>	2023
Co-organized session " <i>Understanding the rural-urban climate nexus</i> "	
Foundational Open Science Skills, CyVerse. <i>Online.</i>	2021
American Association of Geographers Annual Meeting. <i>Online.</i>	2020
Commonwealth Geographic Bureau Workshop on Food and Food Security with the Hungry Cities Partnership. <i>Maputo, Mozambique</i>	2019
ASU & UA Workshop on Climate Justics. <i>Tucson, AZ.</i>	2019
American Association of Geographers Annual Meeting. <i>Washington, DC.</i>	2019
Alan Alda Center for Communicating Science Workshop. <i>Tucson, AZ.</i>	2019

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## Service

### Referee

World Development Perspectives	Environmental Development
Weather, Climate & Society	Cogent Food and Agriculture
International Journal of Agricultural Sustainability	

### Committees

*AAG Population Speciality Group - Student Paper Competition Committee*

### Mentorship

Mentor - Diana Liverman Scholars Program	2021
Peer Mentor - School of Geography, University of Arizona	2020

### Membership

American Geophysical Union (AGU)	2022 - present
Population-Environment Research Network (PERN)	2022 - present
Global Land Programme (GLP)	2022 - present
American Association of Geographers (AAG)	2018 - present
Southern Arizona Geography Association (SAGA)	2018 - present

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## Additional Information

### *Software*

Programming Experience:

R, Python

GIS Experience:

QGIS, ArcGIS

Survey Experience:

Qualtrics, TextIt SMS

Fieldwork Experience:

Kenya, Zambia

Citizenship:

United Kingdom

United States Permanent Resident