

# KATHRYN GRACE

Department of Geography, Environment and Society  
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## EDUCATION

**PhD Geography, University of California, Santa Barbara, 2008**

Dissertation: "Three Essays on Fertility and Family Planning in Guatemala"

**MA Statistics, University of California, Santa Barbara, 2006**

**MSPH Biostatistics, Tulane University School of Public Health, 2004**

**BA Theoretical Mathematics, University of California, Berkeley, 2002**

*Minor in French Language and Culture*

## APPOINTMENTS

2023-	Professor, Department of Geography, Environment and Society, University of Minnesota, Twin Cities
2022-2023	Associate Director, Minnesota Population Center
2018-2023	Associate Professor, Department of Geography, Environment and Society, University of Minnesota, Twin Cities
2016-2018	Assistant Professor, Department of Geography, Environment and Society, University of Minnesota, Twin Cities
2012-present	Research Scientist, Climate Hazards Group, University of California at Santa Barbara
2012-2015	Assistant Professor, Department of Geography, University of Utah
2009-2012	Postdoctoral Researcher, Climate Hazards Center, University of California at Santa Barbara
2008-2009	Postdoctoral Fellow, Max Planck Institute for Demographic Research

## AFFILIATIONS AND VISITING APPOINTMENTS

2016-present	Affiliate, Minnesota Population Center
2016-present	Graduate Faculty in Population Studies, Minnesota Population Center
Winter 2021	Visiting Researcher, Institut National d'Etudes Demographiques, France

Summer 2020	Visiting Researcher, Institut National d'Etudes Demographiques, France (postponed due to Covid-19)
Summer 2020	Visiting Researcher, Stockholm University Demography Unit, Sweden (postponed due to Covid-19)
Summer 2019	Visiting Researcher, Max Planck Institute for Demographic Research, Germany
Summer 2018	Visiting Researcher, Stockholm University Demography Unit, Sweden
Summer 2017	Visiting Researcher, Stockholm University Demography Unit, Sweden
Summer 2016	Visiting Researcher, Institut National d'Etudes Demographiques, France
Summer 2015	Visiting Researcher, Institut National d'Etudes Demographiques, France
Summer 2013	Visiting Researcher, Vienna Institute for Demography, Austria
Summer 2013	Visiting Researcher, University of Ouagadougou, Burkina Faso
2012-present	Affiliate, Broom Center for Demography, University of California at Santa Barbara
2013-2015	Affiliate, Latin American Studies Program, University of Utah

## ADDITIONAL TRAINING

2014	University of Utah Pediatric Grant Writing Workshop in Deer Valley
2009	University of Rome -- Spatial Econometrics Advanced Institute
2009	Max Planck Institute for Demographic Research -- Fertility Analysis and Modeling
2008	University of Texas -- Dallas Summer Spatial Filtering Workshop
2005	Stanford Workshop in Formal Demography

## FELLOWSHIPS AND HONORS

University of Minnesota College of Liberal Arts Scholar of the College, 2019-2022  
 Institut National d'Etudes Demographiques Visiting Researcher Fellowship, 2020  
 Institut National d'Etudes Demographiques Visiting Researcher Fellowship, 2015  
 Demographic and Health Survey (DHS) Population and Reproductive Health Fellowship, 2007  
 University of California Graduate Opportunity Fellowship, 2004-05 & 2007-08  
 University of California Department of Geography Block Grant Funding, 2006  
 Tulane University School of Public Health Dean's Grant, 2004  
 Tulane University Public Health Traineeship Award, 2003  
 University of California Faculty Wives Scholarship, 2001  
 University of California Education Abroad Program Scholarship, 1999

## GRANTS AND AWARDS

*Funding amounts reflect amount received by UMN*

€420,000	<p><i>Humanitarian Aid Project Grant</i>  German Federal Foreign Office (via Action Against Hunger)  Award Period: August 2022 – July 2025  €4,021,244 for project on development of model-based forecasts of acute malnutrition and applications in operational contexts [PI of sub-award (€420,000)]</p>
\$2,500,000	<p><i>International population and agricultural census data for environmental health research</i>  National Institutes of Health R01  MPI: Kathryn Grace and Tracy Kugler  Co-investigators: Jonathon Schroeder, Lara Cleveland, Miriam King  Award Period: 2022-2027</p>
\$33,560	<p><i>Development-Induced displacement and women and children's well-being</i>  National Institutes of Health R21  PI: Heather Randell  Co-Investigators: Thais Tartalha, Kathryn Grace, Scott Yabiku  Award Period: 2022-2024</p>
\$15,000	<p><i>The Impacts Of Extreme Weather On Older Adults' Time Use</i>  Life Course Center of the University of Minnesota, Pilot Grant Program  PI: Sarah Flood, Jesse Berman, Kathryn Grace, Dave Van Riper  Award Period: 2020-2021</p>
\$150,000	<p><i>Geospatial, Farming Systems, and Digital Tools Consortium – building a new era of Predictive Agricultural Innovation to improve the livelihood of smallholder farmers</i>  Feed the Future Innovation Lab for Collaborative Research on Sustainable Intensification (SIIL), USAID  PI: Ignacio Ciampitti, Kansas State University  UMN co-PI: Kathryn Grace  Award Period: 2020-2024</p>

\$300,000	<p><i>The impact of urban and peri-urban agriculture on hydrometeorology, urban food security and human health</i></p> <p>NASA Research Opportunities in Space and Earth Sciences (subaward from \$1,300,000 grant)</p> <p>PI: Christopher Hain</p> <p>Co-Investigator: Kathryn Grace</p> <p>Award Period: 2020-2023</p>
\$2,205,854	<p><i>IPUMS-PMA: Integrated Public Health Microdata Series for PMA2020</i></p> <p>Bill &amp; Melinda Gates Foundation</p> <p>PI: Kathryn Grace</p> <p>Co-Investigator: Elizabeth Heger-Boyle, Matt Sobek, Devon Kristainsen</p> <p>Award Period: 2020-2023</p>
\$3,105,548	<p><i>Microdata for Research on Aging in the Global South</i></p> <p>National Institutes of Health R01</p> <p>PI: Steve Ruggles</p> <p>Co-Investigator: Lara Cleveland, Kathryn Grace, Matt Sobek</p> <p>Award Period: 2019-2024</p>
\$79,857	<p><i>Connecting West Africa users to cutting edge resources: Integrating satellite observations and sub-seasonal climate forecasts to enhance agricultural and pastoral water-management decision-making using 21st century agro-pastoral water deficit predictions</i></p> <p>NASA Research Opportunities in Space and Earth Sciences SERVIR (subaward from \$700,000 grant)</p> <p>PI: Shraddhanand Shukla</p> <p>Co-Investigator: Kathryn Grace</p> <p>Award Period: 2020-2023</p>
\$118,000	<p><i>Modelling Early Risk Indicators to Anticipate Malnutrition - MERIAM</i></p> <p>United Kingdom Department of International Development (DFID) (subaward from \$3,000,000 grant)</p> <p>PI: Kathryn Grace (Minnesota)</p> <p>Award Period: 2019-2021</p>
\$38,671	<p><i>The Impact of Exposure to Heatwaves Across the Reproductive Life Course</i></p> <p>UMN Talle Faculty Research Awards</p> <p>PI: Kathryn Grace</p> <p>Award Period: 2019-2021</p>

\$157,141	<p><i>Early identification and forecasts of reduced-yield agricultural seasons in the Developing World</i></p> <p>US Agency for International Development (USAID) (subaward from \$1,808,000 grant)</p> <p>PI: Gregory Husak (University of California, Santa Barbara)</p> <p>Co-Investigator: Kathryn Grace (Minnesota lead)</p> <p>Award Period: 2019-2024</p>
\$5,047,150	<p><i>International Integrated Microdata Series</i></p> <p>National Science Foundation</p> <p>PI: Steven Ruggles</p> <p>Co-PI: Kathryn Grace, Elizabeth Heger Boyle, Deborah Levison, Ragui Assad</p> <p>Award Period: 2020-2025</p>
\$899,358	<p><i>Integrating and Disseminating PMA2020 Data: Towards Greater Access to Family Planning for Women in High Fertility Countries</i></p> <p>Bill &amp; Melinda Gates Foundation</p> <p>PI: Elizabeth Heger Boyle</p> <p>Co-Investigator: Kathryn Grace (from 2018)</p> <p>Award Period: 2017-2020</p>
\$40,000	<p><i>Hotspotting Cardiometabolic Disparities for Simulated Advances in Population Care</i></p> <p>National Institute on Aging, National Institutes of Health, R01 AG052533 (subaward from \$1,500,000 grant)</p> <p>PI: Bjorn Westgard (University of Minnesota Medical School)</p> <p>Co-Investigator: Kathryn Grace (Minnesota)</p> <p>Award Period: 2018-2022</p>
\$400,492	<p><i>Understanding multi-scale resilience options for climate vulnerable Africa; Innovations at the Nexus of Food, Energy and Water Systems (INFEWS)</i></p> <p>National Science Foundation (subaward from \$2,799,021 grant)</p> <p>PI: Benjamin Zaitchick (Johns Hopkins)</p> <p>PI: Kathryn Grace (Minnesota lead)</p> <p>Award Period: 2016-2020</p>
\$4,000	<p><i>A comparative analysis of the relationship between climate variability, agricultural specialization and children's health: evidence from Kenya and Mali</i></p> <p>Minnesota Population Center Collaborative grant</p> <p>PI: Maryia Bahktsiyarava (graduate student) and co-PI: Kathryn Grace</p> <p>Award Period: 2016-2017</p>

\$400,492	<p><i>Understanding multi-scale resilience options for climate vulnerable Africa; Innovations at the Nexus of Food, Energy and Water Systems (INFEWS)</i></p> <p>National Science Foundation (subaward from \$2,799,021 grant)</p> <p>PI: Benjamin Zaitchick (Johns Hopkins)</p> <p>PI: Kathryn Grace (Minnesota lead)</p> <p>Award Period: 2016-2020</p>
\$4,000	<p><i>A comparative analysis of the relationship between climate variability, agricultural specialization and children's health: evidence from Kenya and Mali</i></p> <p>Minnesota Population Center Collaborative grant</p> <p>PI: Maryia Bahktsiyarava (graduate student) and co-PI: Kathryn Grace</p> <p>Award Period: 2016-2017</p>
\$1,575	<p><i>Can migrants' use of cell phones reduce the climate vulnerability of their communities of origin?</i></p> <p>Institute on the Environment (IonE) minigrant</p> <p>PI: Kathryn Grace, Jude Mikal, Jack DeWaard</p> <p>Award Period: 2016-2017</p>
\$88,000	<p><i>Estimating Micro-level Livelihood Characteristics for Vulnerability Mapping Using Household-level Surveys and Remotely Sensed Data</i></p> <p>Kimetrica, a subcontract through US Agency for International Development</p> <p>PI: Kathryn Grace</p> <p>Award Period: 2016</p> <p>note: funding reduced during project period to \$16,000 because of changes in available funds to Kimetrica</p>
\$10,000	<p><i>Mining Impacts: Andean Nation Development of Environmental/Economic Solutions</i></p> <p>University of Utah's Global Learning Across the Disciplines</p> <p>co-PI: Kathryn Grace</p> <p>Award Period: 2015</p>
\$21,000	<p><i>Children's health, water source and agricultural production in a context of climate change: a spatial case study of Burkina Faso</i></p> <p>University of Utah Primary Childrens Hospital Fellowship</p> <p>PI: Kathryn Grace, Mentor: Ken Smith</p> <p>Award Period: 2015</p>

\$12,000	<p><i>Central American Fertility in Los Angeles Translation: Informing Statistical Models with Qualitative Context</i></p> <p>University of California, Center for New Racial Studies co-PI: Kathryn Grace Award Period: 2013-2014</p>
\$178,000	<p><i>Using Very High Resolution Remotely Sensed Data to Measure Cultivated Area and Land Use in High Fertility Countries</i></p> <p>United States Geological Service (subaward from \$1,000,000 award to UCSB Climate Hazards Group, Famine Early Warning Systems) PI: Kathryn Grace Award Period: 2012-2018</p>
\$274,000	<p><i>Examining the Links Between Agriculture and Human Health in a Context of Climate Change: A Case Study of Three West African Countries - Niger, Burkina Faso and Mali</i></p> <p>NASA Research Opportunities in Space and Earth Sciences PI: Kathryn Grace; Co-I: Greg Husak Award Period: 2012-2016</p>
\$3,500	<p><i>How Food Insecurity Impacts Contraceptive Use in Early Transitional Societies</i></p> <p>College of Social and Behavioral Sciences, University of Utah PI: Kathryn Grace Award Period: 2012-2013</p>

## PUBLICATIONS

\* indicates postdoctoral researcher or graduate student at the time of submission

### REFEREED ARTICLES (53)

Grace, K., D. Kristiansen, E. H. Boyle, et al. (2023). "Investigating Seasonal Agriculture, Contraceptive Use, and Pregnancy in Burkina Faso". *The Professional Geographer*. <https://doi.org/10.1080/00330124.2023.2199316>.

Brown, M. E. and K. L. Grace (2023). "Data scarcity limits understanding of hydroclimatic drivers of food and urban security". *Nature Water* 1.4. <https://www.nature.com/articles/s44221-023-00066-9>.

Yu\*, J., E. H. Boyle, Y. Zhang, et al. (2023). "Trust and COVID precautionary measures during the early days of the COVID-19 pandemic: Evidence from two African countries". *SSM - population health* 22. <http://dx.doi.org/10.1016/j.ssmph.2023.101397>.

Brooks, N., K. Grace, D. Kristiansen, et al. (2023). “Investigating the relationship between growing season quality and childbearing goals”. *Global environmental change: human and policy dimensions* 80. <http://dx.doi.org/10.1016/j.gloenvcha.2023.102677>.

Brown, M. E., A. J. P. Carcedo, M. Eggen, et al. (2023). “Integrated modeling framework for sustainable agricultural intensification”. *Frontiers in sustainable food systems* 6. <https://www.frontiersin.org/articles/10.3389/fsufs.2022.1039962/full>.

Dorélien, A. and K. Grace (2023). “Climate Change-Related Demographic and Health Research: Data and Approaches”. *Environmental Impacts on Families: Change, Challenge, and Adaptation*. Ed. by S. E. Ortiz, S. M. McHale, V. King and J. E. Glick. Cham: Springer Nature Switzerland. [https://doi.org/10.1007/978-3-031-22649-6\\_3](https://doi.org/10.1007/978-3-031-22649-6_3).

Luetke\*, M., K. Grace, and M. Gunther (2023). “Investigating the impacts of rainfall, armed conflict, and COVID-19 shocks on women’s household decision-making among partnered women in Burkina Faso”. *In press*.

Burrows\*, R., K. Grace, M. Brown, et al. (2023). “Considering soil moisture in models of climate impacts on child nutrition in farming-centric countries”. *In press*.

Grace, K., A. Verdin, M. Brown, et al. (2022). “Conflict and Climate Factors and the Risk of Child Acute Malnutrition Among Children Aged 24–59 Months: A Comparative Analysis of Kenya, Nigeria, and Uganda”. *Spatial Demography* 10. <https://link.springer.com/article/10.1007/s40980-021-00102-w>.

Sherbinin, A. ., K. Grace, S. McDermid, et al. (2022). “Migration theory in climate mobility research”. *Frontiers in*. <https://www.frontiersin.org/articles/10.3389/fclim.2022.882343/full>.

Bakhtsiyarava, M. and K. Grace (2021). “Agricultural production diversity and child nutrition in Ethiopia”. *Food Security* 13.6. <https://doi.org/10.1007/s12571-021-01173-9>.

Tuholske, C., K. Caylor, C. Funk, et al. (2021). “Global urban population exposure to extreme heat”. *Proceedings of the National Academy of Sciences of the United States of America* 118.41. <http://dx.doi.org/10.1073/pnas.2024792118>.

Brown, M. E., K. Grace, T. Billing, et al. (2021). “Considering climate and conflict conditions together to improve interventions that prevent child acute malnutrition”. *The Lancet Planetary health* 5.9. [http://dx.doi.org/10.1016/S2542-5196\(21\)00197-2](http://dx.doi.org/10.1016/S2542-5196(21)00197-2).

Pinchoff, J., W. Turner, and K. Grace (2021). “The association between agricultural conditions and multiple dimensions of undernutrition in children 6–23 months of age in Burkina Faso”. *Environmental Research Communications* 3.6. <https://iopscience.iop.org/article/10.1088/2515-7620/ac07f5/meta>.

Bell, A. R., M. Roberts, K. Grace, et al. (2021). “How high frequency food diaries can transform understanding of food security”. *Environmental research letters: ERL [Web site]* 16.4. <https://iopscience.iop.org/article/10.1088/1748-9326/abe674/meta>.



DiClemente, K., K. Grace, T. Kershaw, et al. (2021). “Investigating the Relationship between Food Insecurity and Fertility Preferences in Tanzania”. *Maternal and child health journal* 25.2. <http://dx.doi.org/10.1007/s10995-020-03022-1>.

Grace, K., A. Verdin, A. Dorélien, et al. (2021). “Exploring strategies for investigating the mechanisms linking climate and individual-level child health outcomes: An analysis of birth weight in Mali”. *Demography*. <https://read.dukeupress.edu/demography/article/doi/10.1215/00703370-8977484/168441/Exploring-Strategies-for-Investigating-the>.

Verdin, A., K. Grace, F. Davenport, et al. (2021). “Can we advance individual-level heat-health research through the application of stochastic weather generators?” *Climatic change* 164.1-2. <http://link.springer.com/10.1007/s10584-021-02974-9>.

Randell, H., K. Grace, and M. Bakhtsiyarava (2021). “Climatic conditions and infant care: implications for child nutrition in rural Ethiopia”. *Population and environment*. <http://link.springer.com/10.1007/s11111-020-00373-3>.

Grace, K. and F. Davenport (2021). *Climate variability and health in extremely vulnerable communities: investigating variations in surface water conditions and food security in the West African Sahel*. <http://dx.doi.org/10.1007/s11111-021-00375-9>.

Brown, M. E., D. Backer, T. Billing, et al. (2020). “Empirical studies of factors associated with child malnutrition: highlighting the evidence about climate and conflict shocks”. *Food Security* 12.6. <https://doi.org/10.1007/s12571-020-01041-y>.

Grace, K., S. Siddiqui, and B. F. Zaitchik (2020). “A framework for interdisciplinary research in food systems”. *Nature Food* 2.1. <https://www.nature.com/articles/s43016-020-00212-6>.

Randell, H., C. Gray, and K. Grace (2020). “Stunted from the start: Early life weather conditions and child undernutrition in Ethiopia”. *Social science & medicine* 261. <http://dx.doi.org/10.1016/j.socscimed.2020.113234>.

Davenport, F., A. Dorélien, and K. Grace (2020). “Investigating the linkages between pregnancy outcomes and climate in sub-Saharan Africa”. *Population and environment* 41.4. <http://link.springer.com/10.1007/s11111-020-00342-w>.

Grace, K., S. Billingsley, and D. . Riper (2020). “Building an interdisciplinary framework to advance conceptual and technical aspects of population-environment research focused on women's and children's health”. *Social science & medicine* 250. <http://www.sciencedirect.com/science/article/pii/S0277953620300769>.

Mikal, J., K. Grace, J. DeWaard, et al. (2020). “Domestic migration and mobile phones: A qualitative case study focused on recent migrants to Ouagadougou, Burkina Faso”. *PloS one*. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0236248>.

Grace, K., A. T. Murray, and R. Wei (2020). “Improving Urban and Peri-urban Health Outcomes Through Early Detection and Aid Planning”. *Geospatial Technologies for Urban Health*. Ed. by

Y. Lu and E. Delmelle. Cham: Springer International Publishing. [https://doi.org/10.1007/978-3-030-19573-1\\_12](https://doi.org/10.1007/978-3-030-19573-1_12).

Verdin, A., C. Funk, P. Peterson, et al. (2020). *Development and validation of the CHIRTS-daily quasi-global high-resolution daily temperature data set*. <http://dx.doi.org/10.1038/s41597-020-00643-7>.

Kugler, T. A., K. Grace, D. J. Wrathall, et al. (2019). "People and Pixels 20 years later: the current data landscape and research trends blending population and environmental data". *Population and environment* 41.2. <https://doi.org/10.1007/s11111-019-00326-5>.

Grace, K., N. N. Nagle, C. R. Burgert-Brucker, et al. (2019). "Integrating environmental context into DHS analysis while protecting participant confidentiality: A new remote sensing method". *Population and development review* 45.1. <https://www.ncbi.nlm.nih.gov/pmc/articles/pmc6446718/>.

Bakhtsiyarava, M., K. Grace, and R. Nawrotzki (2018). "A Comparative Analysis of the Relationship between Climate Change, Agricultural Specialization and Children's Health: Evidence from Kenya and Mali". *American Journal of Public Health* 108.S2. [https://paa.confex.com/paa/2017/mediafile/ExtendedAbstract/Paper12856/PAA\\_abstract.pdf](https://paa.confex.com/paa/2017/mediafile/ExtendedAbstract/Paper12856/PAA_abstract.pdf).

Grace, K., V. Hertrich, D. Singare, et al. (2018). *Examining rural Sahelian out-migration in the context of climate change: An analysis of the linkages between rainfall and out-migration in two Malian villages from 1981 to 2009*. <http://dx.doi.org/10.1016/j.worlddev.2018.04.009>.

Davenport, F., K. Grace, C. Funk, et al. (2017). "Child health outcomes in sub-Saharan Africa: A comparison of changes in climate and socio-economic factors". *Global environmental change: human and policy dimensions* 46. <https://www.sciencedirect.com/science/article/pii/S0959378016302667>.

Grace, K., L. Frederick, M. E. Brown, et al. (2017). "Investigating important interactions between water and food security for child health in Burkina Faso". *Population and environment* 39.1. <https://doi.org/10.1007/s11111-017-0270-6>.

Grace, K., R. Wei, and A. T. Murray (2017). "A spatial analytic framework for assessing and improving food aid distribution in developing countries". *Food Security* 9.4. <https://doi.org/10.1007/s12571-017-0703-1>.

Grace, K., A. Lerner, J. Mikal, et al. (2017). "A qualitative investigation of childbearing and seasonal hunger in peri-urban Ouagadougou, Burkina Faso". *Population and environment* 38.4. <http://dx.doi.org/10.1007/s11111-016-0268-5>.

Grace, K. (2017). "Considering climate in studies of fertility and reproductive health in poor countries". *Nature climate change* 7. <http://dx.doi.org/10.1038/nclimate3318>.

Grace, K. and S. Sweeney (2016). "Ethnic Dimensions of Guatemala's Stalled Transition: A Parity-Specific Analysis of Ladino and Indigenous Fertility Regimes". *Demography* 53.1. <http://>

[dx.doi.org/10.1007/s13524-015-0452-8](https://doi.org/10.1007/s13524-015-0452-8).

Husak, G. and K. Grace (2016). "In search of a global model of cultivation: using remote sensing to examine the characteristics and constraints of agricultural production in the developing world". *Food Security* 8.1. <https://doi.org/10.1007/s12571-015-0538-6>.

Grace, K. and N. N. Nagle (2015). "Using High-Resolution Remotely Sensed Data to Examine the Relationship Between Agriculture and Fertility in Mali". *The Professional Geographer* 67.4. <https://doi.org/10.1080/00330124.2015.1032899>.

Brown, M. E., J. M. Antle, P. Backlund, et al. (2015). *Climate Change, Global Food Security, and the U.S. Food System*. <https://www.usda.gov/sites/default/files/documents/FullAssessment.pdf>.

Grace, K., F. Davenport, H. Hanson, et al. (2015). "Examining the relationship between temperature, rainfall and low birthweight in sub-saharan Africa". *Global environmental change: human and policy dimensions* 35. <https://experts.umn.edu/en/publications/examining-the-relationship-between-temperature-rainfall-and-low-b>.

Grace, K., G. Husak, and S. Bogle (2014). "Estimating agricultural production in marginal and food insecure areas in Kenya using very high resolution remotely sensed imagery". *Applied geography* 55. <https://www.sciencedirect.com/science/article/pii/S0143622814001878>.

Grace, K. and N. Nagle (2014). "Why are some vulnerable children healthy and others stunted? A case study of vulnerability and resilience among very young children in West Africa". Vol. 2014. <https://ui.adsabs.harvard.edu/abs/2014AGUFMPA34A..03G>.

Grace, K., M. Brown, and A. McNally (2014). "Examining the link between food prices and food insecurity: A multi-level analysis of maize price and birthweight in Kenya". *Food policy* 46. <https://www.sciencedirect.com/science/article/pii/S0306919214000244>.

Grace, K. and S. Sweeney (2014). "Pathways to marriage and cohabitation in Central America". *Demographic research* 30. <http://www.jstor.org/stable/26348197>.

Brown, M. E., K. Grace, G. Shively, et al. (2014). "Using satellite remote sensing and household survey data to assess human health and nutrition response to environmental change". *Population and environment* 36. <http://dx.doi.org/10.1007/s11111-013-0201-0>.

Grace, K. and S. H. Sweeney (2013). "Understanding stalling demographic transition in high-fertility countries: a case study of Guatemala". *Journal of population research* 30.1. <https://doi.org/10.1007/s12546-012-9094-5>.

Sweeney, S., F. Davenport, and K. Grace (2013). "Combining insights from quantile and ordinal regression: child malnutrition in Guatemala". *Economics and human biology* 11.2. <http://dx.doi.org/10.1016/j.ehb.2012.06.001>.

Grace, K., F. Davenport, C. Funk, et al. (2013). "Child malnutrition and climate conditions in Kenya". *Applied geography* 11.

Mikal, J. P. and K. Grace (2012). "Against Abstinence-Only Education Abroad: Viewing Internet Use During Study Abroad as a Possible Experience Enhancement". *Journal of Studies in International Education* 16.3. <https://doi.org/10.1177/1028315311423108>.

Grace, K., G. J. Husak, L. Harrison, et al. (2012). "Using high resolution satellite imagery to estimate cropped area in Guatemala and Haiti". *Applied geography* 32.2. <https://www.sciencedirect.com/science/article/pii/S014362281100097X>.

Grace, K. (2010). "Contraceptive use and intent in Guatemala". *Demographic research* 23. <http://www.jstor.org/stable/26349597>.

## OTHER PUBLICATIONS (8)

Dorelien, A. and K. Grace (2023). "Data and the frameworks for linking women and children's health to climate change". *Environmental Impacts on Families: Change, Challenge, and Adaptation*. Ed. by S. E. Ortiz, S. M. McHale, V. King and J. E. Glick. Springer. <https://link.springer.com/book/10.1007/978-3-031-22649-6>.

Adams, E. C., K. Grace, and S. Shukla (2022). "Editorial: Gender and social consideration in climate and impacts research and services". *Frontiers in climate* 4. <https://www.frontiersin.org/articles/10.3389/fclim.2022.1038266/full>.

Grace, K. and E. Klancher-Merchant (2022). "The data we need for the future we want". *Population and development review* The World at 8 Billion. [https://knowledgecommons.popcouncil.org/cgi/viewcontent.cgi?article=1000&context=series\\_pdr\\_essays-8-billion&mc\\_cid=97dcd5770f&mc\\_eid=68ab68c13e](https://knowledgecommons.popcouncil.org/cgi/viewcontent.cgi?article=1000&context=series_pdr_essays-8-billion&mc_cid=97dcd5770f&mc_eid=68ab68c13e).

Grace, K. and J. Mikal (2019). "Incorporating qualitative methodologies and fieldwork into large scale, quantitative analyses of climate health in low-income countries". *The Lancet Planetary health* 3.12. [http://dx.doi.org/10.1016/S2542-5196\(19\)30240-2](http://dx.doi.org/10.1016/S2542-5196(19)30240-2).

Balk, D. and K. Grace (2019). "Investigating demographic processes using innovative combinations of remotely sensed and demographic data". *Population and environment* 41.2. <https://doi.org/10.1007/s11111-019-00330-9>.

Brown, M. E., E. R. Carr, K. L. Grace, et al. (2017). "Do markets and trade help or hurt the global food system adapt to climate change?" *Food policy* 68. <https://www.sciencedirect.com/science/article/pii/S030691921630481X>.

Brown, M., K. . Beurs, and K. Grace (2015). "Global land surface phenology and implications for food security". *Land Resources Monitoring, Modeling, and Mapping with Remote Sensing*. CRC Press. <https://experts.umn.edu/en/publications/global-land-surface-phenology-and-implications-for-food-security>.

Sweeney, S. and K. Grace (2012). "Regression Analysis of Anthropometry Data: A Simulation Study of a Two-Stage Estimator". *JSM Proceedings*. <https://www.academia.edu/download>

## PRESENTATIONS

### INVITED TALKS

Grace, K. (2022). *Climate Change and Fertility*. Keynote Lecture at the Wittgenstein Centre Conference - Population and Climate Change: the defining relationship of the 21st Century.

Dorelien, A. and K. Grace (2021). *Data and the frameworks for linking women and children's health to climate change*. Environmental Impacts on Families: Change, Challenge, and Adaptation at Penn State's 29th Annual Symposium on Family Issues, Penn State University.

Grace, K. (2021). *Data, measurement, and pathways linking climate change and child health*. Demography Department, University of California, Berkeley.

Grace, K. (2021). *Climate change and fertility*. IUSSP, PERN, and EAPS joint webinar on Climate Change and Population Dynamics.

Grace, K. (2021). *Using spatial data to explore gender-based vulnerabilities in a context of climate change*. UN sponsored seminar on Gender and Geospatial Analysis for the 2030 Agenda and the Sustainable Development Goals, El Colegio de Mexico.

Grace, K. (2020). *Climate variability and women and children's health and well-being in vulnerable communities*. Humanitarian Data Science Division, University College London.

Grace, K. (2020). *Heat, hunger, and resilience: Climate change and children's health*. Population and Health Research Group, University of St. Andrews.

Grace, K. (2020). *Heat, Hunger and Resilience: Climate and Children's Health*. Department of Population Health, NYU Langone Health.

Grace, K. (2020). *Considering climate and outmigration in two rural Malian villages*. Workshop on Disentangling the Drivers of Migration in West Africa, Columbia University.

Grace, K. (2020). *Exploring strategies for investigating the underlying linkages between climate and child health*. Department of Earth and Planetary Sciences, Johns Hopkins University.

Grace, K. (2018). *Applying social science perspectives in the classroom to examine the impact of climate change*. Department of Human Ecology. UC Davis.

Grace, K. (2018). *Considering the linkages between climate and health: A focus on women's and children's health in sub-Saharan Africa*. CUNY Institute for Demographic Research (CIDR).

Grace, K. (2018). *Considering the linkages between climate and health: A focus on women's and children's health in sub-Saharan Africa*. Geography Department, Macalaster College.

Grace, K. (2018). *Considering the linkages between climate and health: A focus on women's and children's health in sub-Saharan Africa*. Carolina Population Center, University of North Carolina, Chapel Hill.

Grace, K. (2017). *Considering women and children's health in the context of climate change: an investigation of birthweight, temperature and precipitation in Africa*. Population Studies and Training Center, Brown University.

Grace, K. (2017). *Investigating birthweight, temperature, and precipitation in Africa*. Department of Geography, Clark University.

Grace, K. (2016). *Food insecurity and Children's Health in Africa*. Pediatric Grand Rounds, UMN Children's Hospital.

Grace, K. (2016). *Agricultural Variability and the Impact on Children's Health*. NASA Land Cover Land Use Change (LCLUC) Webinar.

Grace, K. (2016). *Examining the link between climate change and birthweight in Africa*. Famine Early Warning System (FEWS NET) Science Meeting.

Grace, K. (2016). *Food insecurity and Children's Health in Africa*. Institute for Population Research, The Ohio State University.

Grace, K. and G. Husak (2015). *Agriculture and health in a context of climate change: Food availability under different climate scenarios in West Africa*. NASA Land Cover Land Use Change (LCLUC) Meeting.

Grace, K. (2014). *Fertility, Food Insecurity and Agriculture in West Africa*. Pennsylvania State University.

Grace, K. and N. Nagle (2013). *Using High Resolution Imagery to Evaluate Fertility and Agriculture*.

Grace, K., M. Brown, and A. McNally (2013). *Maize Prices and Low Birth Weight in Kenya*. University of Tennessee.

Grace, K. and N. Nagle (2013). *Using High Resolution Remotely Sensed Data to Re-Examine the Relationship between Agriculture and Fertility in a Pre-Transitional Setting*. Vienna Institute for Demography.

Grace, K., M. Brown, and A. McNally (2012). *Maize Prices and Low Birth Weight in Kenya*. Human Health and Ecosystems Workshop at SESYNC.

Grace, K. (2011). *Union formation in Guatemala, Honduras and Nicaragua*. Auburn University.

Grace, K. (2010). *Spatial analysis from a geographer's perspective*. Brown University.



Grace, K. (2008). *Using classification trees to analyze contraception in Guatemala*. University of Iowa.

Grace, K. (2008). *Using Trees to Reveal Better Fruit: Identifying high need populations in Guatemala*. University of Groningen.

## PAPERS ACCEPTED FOR PRESENTATION AT ACADEMIC ASSOCIATION MEETINGS

Brown, M., K. Grace, and M. Niles (2022). *The Impact of Temperature Extremes on Nutrition and Diet Diversity in Children under Five*. American Geophysical Union (AGU) Fall Meeting.

McCarty, J., C. Hain, M. Brown, et al. (2022). *Quantifying the Impact of Urban Expansion until 2030 on Peri-Urban Agriculture, Hydrometeorology, Food Security and Human Health*. American Geophysical Union (AGU) Fall Meeting.

Shukla, S., F. Davenport, K. Grace, et al. (2022). *Using subseasonal climate variability at the community-level to advance place-based early warning systems in West Africa*. American Geophysical Union (AGU) Fall Meeting.

Brown, M., A. Carcedo, M. Eggen, et al. (2022). *Integrating agriculture and agronomic models with social and demographic modeling to accelerate sustainable agricultural intensification*. American Geophysical Union (AGU) Fall Meeting.

Shukla, S., W. Turner, G. Husak, et al. (2022). *Improving early warning of droughts near onset and middle of a growing season*. 24th European Geosciences Union (EGU) General Assembly.

Luetke\*, M., K. Grace, and M. Gunther (2022). *Investigating the Combined Impacts of Drought, Conflict, and COVID-19 on Household Dynamics: A Longitudinal Analysis of Female Decision-making Power in Burkina Faso*. Population Association of America (PAA) Annual Meeting.

Yu\*, J., K. Grace, E. H. Boyle, et al. (2022). *Social Trust, Modern Contraceptive Use, and COVID-19 Knowledge in Three African Countries*. Population Association of America (PAA) Annual Meeting.

Burrows\*, R., K. Grace, M. Brown, et al. (2022). *Considering Soil Moisture in Models of Climate Impacts on Child Nutrition in Farming-Centric Countries*. Population Association of America (PAA) Annual Meeting.

Randell, H., K. Grace, and T. Tartalha (2022). *Extreme Weather Events and Adverse Birth Outcomes: Evidence From Brazil*. Population Association of America (PAA) Annual Meeting.

Brooks, N., M. Gunther, E. Bendavid, et al. (2022). *Impact of the “Protecting Life in Global Health Assistance”, (PLGHA) Policy on Health Service Delivery in Sub-Saharan Africa*. Population Association of America (PAA) Annual Meeting.

Brooks, N., K. Grace, M. Brown, et al. (2021). *How Does Seasonal Food Insecurity Impact Fertility? A Multicountry Spatial Analysis of Contraceptive Use and Pregnancies*. Cultivating

Equality - CGIAR online conference.

Burrows\*, R., K. Grace, and S. Siddiqui (2021). *How Do Multiple Shocks Impact Health? An Analysis Using Agent-Based Models to Explore the Effects of Climate and Conflict Shocks on Children's Health*. Population Association of America (PAA) Annual Meeting .

Brooks, N., K. Grace, M. Brown, et al. (2021). *How Does Seasonal Food Insecurity Impact Fertility? A Multicountry Spatial Analysis of Contraceptive Use and Pregnancies*. Population Association of America (PAA) Annual Meeting.

Grace, K., F. Davenport, R. Burrows\*, et al. (2021). *The Impact of Heat Waves on Child Health in Africa*. Population Association of America (PAA) Annual Meeting.

Grace, K., A. Verdin, and V. Hertrich (2019). *How Do Changing Environmental Factors Interact With Individual Factors to Influence Migration Behavior in Environmentally Precarious Communities*. American Association of Geographers (AAG) Annual Meeting.

Grace, K. a. S. B. (2019). *Fertility and Climate Instability in Agriculturally-Dependent Contexts: Parity Transitions in Albania, Moldova, and Uzbekistan*. Population Association of America (PAA) Annual Meeting.

Grace, K. a. A. V. and V. Hertrich (2019). *How Do Changing Environmental Factors Interact With Individual Factors to Influence Migration Behavior in Environmentally Precarious Communities: Investigating Outmigration From 1981-2009 in Rural Mali*. Population Association of America (PAA) Annual Meeting.

Grace, K., M. Brown, and M. Bakhtsiyarava (2018). *A multi-scalar investigation of development and health in Ethiopia: Household electrification in an agriculturally dependent and climate sensitive country*. American Geophysical Union (AGU) Fall Meeting.

Grace, K., A. Verdin, and V. Hertrich (2018). *How do changing environmental factors influence internal migration behavior in environmentally precarious communities in Mali, 1981-2008*. Migration, Environment and Climate: What Risk Inequalities? INED.

Randell, H., C. Gray, and K. Grace (2018). *Climate Change and Multidimensional Vulnerability to Child Un- dernutrition: Evidence from Ethiopia*. Population Association of America (PAA) Annual Meeting.

Grace, K., F. Davenport, A. McNally, et al. (2018). *Climate Variability and Health in Extremely Vulnerable Communities: Investigating Variations in Surface Water Availability, Vegetation, and Food Insecurity in the Sahel*. Population Association of America (PAA) Annual Meeting.

Dorelien, A., K. Grace, and F. Davenport (2018). *Malaria Exposure and Pregnancy Outcomes in Sub-Saharan Africa*. Population Association of America (PAA) Annual Meeting.

Bakhtsiyarava, M., K. Grace, and R. Nawrotzki (2017). *Does Agricultural Specialization Matter? An Analysis of the Relationship between Climate Change, Agricultural Specialization, and*



*Children's Health in Kenya and Mali*," I have published = "International Population conference at the International Union for the Scientific Study of Population (IUSSP).

Grace, K., F. Davenport, and A. Dorelien (2017). *The Impact of Climate and Food Insecurity on Miscarriage, Stillbirth and Neonatal Mortality in Africa*. Population Association of America (PAA) Annual Meeting.

Grace, K., N. Nagle, C. Burger-B, et al. (2017). *Seeking Contextually Relevant Spatial Information While Protecting Participant Confidentiality: An Application of Tobler's First Law*. Population Association of America (PAA) Annual Meeting.

Bakhtsiyarava, M., K. Grace, and R. Nawrotzki (2017). *Does Agricultural Specialization Matter? A Comparative Analysis of the Relationship Between Climate Change, Agricultural Specialization, and Children's Health in Kenya and Mali*. Population Association of America (PAA) Annual Meeting.

Grace, K., D. F., and D. A. (2017). *Investigating the Linkages between Pregnancy Outcomes and Climate in sub-Saharan Africa*. American Association of Geographers Annual Meeting (AAG).

Davenport, F., K. Grace, C. Funk, et al. (2017). *Child health outcomes in Sub-Saharan Africa: A comparison of changes in climate and socio-economic factors*. Western Regional Science Association (WRSA) Annual Meeting.

Grace, K., G. Husak, and F. Davenport (2016). *Merging fine and coarse resolution remotely sensed data with household-level survey data to evaluate small-scale vulnerability to climate change in West Africa*. American Geophysical Union (AGU) Fall Meeting.

Grace, K., V. Hertrich, D. Singare, et al. (2016). *Examining Rural Sahelian out-Migration in the Context of Climate Change: A Multi-Method Analysis of the Linkages Between Rainfall and Out-migration in Two Rural Villages from 1981-2009*. Population Association of America (PAA) Annual Meeting.

Grace, K., R. Wei, and A. Murray (2016). *A Spatial Analytic Framework for Assessing and Improving Food Aid Distribution in Developing Countries*. Western Regional Science Association (WRSA) Annual Meeting.

Grace, K., L. Frederick, M. Brown, et al. (2015). *The Impacts of Water Quality and Food Availability on Children's Health in West Africa: A Spatial Analysis Using Remotely Sensed Data and Small-Scale Water Quality Data and Country-level Health Data*. American Geophysical Union (AGU) Fall Meeting.

Grace, K., N. Nagle, and G. Husak (2014). *Why are some vulnerable children healthy and others stunted? A case study of vulnerability and resilience among very young children in West Africa*. American Geophysical Union (AGU) Fall Meeting.

Grace, K., F. Davenport, H. Hanson, et al. (2014). *Examining the Relationship between Temperature, Rainfall and Low Birth Weight: Evidence from 21 African Countries*. European

Population Conference (EPC).

Grace, K., F. Davenport, H. Hanson, et al. (2014). *Examining the Relationship between Temperature, Rainfall and Low Birth Weight: Evidence from 21 African Countries*. Population Association of America (PAA) Annual Meeting.

Lewis-Gonzales, S. L., N. Nagle, and K. Grace (2013). *Accuracy of supervised classification of cropland in sub-Saharan Africa*. American Geophysical Union (AGU) Fall Meeting.

Grace, K., A. Lerner, and G. Sangli (2013). *Women's Agency and Perception of Vulnerability: A Qualitative Analysis of Breastfeeding, Contraception and Food Insecurity in Burkina Faso*. Annual Sociology of Development Conference.

Sweeney, S. and K. Grace (2013). *Immigration and Fertility Change in Los Angeles*. Annual Sociology of Development Conference.

Grace, K. and N. Nagle (2013). *Using High Resolution Remotely Sensed Data to Re-Examine the Relationship between Agriculture and Fertility in a Pre-Transitional Setting*. Agricultural and Applied Economics Annual Meeting.

Grace, K. and N. Nagle (2013). *Using High Resolution Remotely Sensed Data to Re-Examine the Relationship between Agriculture and Fertility in a Pre-Transitional Setting*. Population Association of America (PAA) Annual Meeting.

Grace, K., M. Brown, and A. McNally (2012). *Maize Prices and Low Birth Weight in Kenya*. Population Association of America (PAA) Annual Meeting.

Sweeney, S. and K. Grace (2011). *Fertility Assimilation Behavior of Los Angeles Immigrants*. Population Association of America (PAA) Annual Meeting.

Grace, K., F. Davenport, and C. Funk (2011). *Fertility, Child Stunting, and Climate Change: An analysis of recent trends in Kenya*. Population Association of America (PAA) Annual Meeting.

Grace, K. and G. Husak (2010). *Estimating Cropped Area in Haiti and Guatemala*. European Population Conference.

Grace, K. and G. Husak (2010). *Using Demographic Data to Estimate Cropped Area in Highly Undernourished Countries*. Association of American Geographers Annual Conference.

Grace, K. and S. Sweeney (2009). *Informal and Formal Union Formation in Three Central American Countries*. Population Association of America (PAA) Annual Meeting.

Grace, K. (2009). *A comparative analysis of contraceptive use and intent in Guatemala*. Association of American Geographers Annual Conference.

Grace, K. (2007). *Fertility Correlates in Peten, Guatemala*. Association of American Geographers Annual Conference.

## POSTERS ACCEPTED FOR PRESENTATION AT ACADEMIC ASSOCIATION MEETINGS

Billingsley, S., K. Grace, and M. Bakhtsiyarava (2022). *Climate Change and Conceptions: Comparing Weather and Fertility Linkages in Armenia and Tajikistan*. Population Association of America (PAA) Annual Meeting.

Verdin, A., K. Grace, C. Funk, et al. (2019). *Advancing climate-health research with stochastic weather generators*. American Geophysical Union (AGU) Fall Meeting.

Bakhtsiyarava, M. and K. Grace (2018). *Investigation of the Determinants of Food Security: The Role of Agricultural Inputs for Household Food Security and Child Nutrition in Ethiopia*. Population Association of America (PAA) Annual Meeting.

Grace, K., F. Davenport, and C. Funk (2015). *The Future of Infant Health and Mortality in Sub-Saharan Africa: Evaluating the Relative Importance of Changes in Socio-Economics versus Climate*. Population Association of America (PAA) Annual Meeting.

Sweeney, S. and K. Grace (2014). *Immigrant fertility adaptation and change in Los Angeles*. European Population Conference (EPC).

Grace, K., A. Lerner, and G. Sangli (2014). *Breastfeeding, Contraception and Food Insecurity in Burkina Faso*. Population Association of America (PAA) Annual Meeting.

Grace, K., G. Husak, and S. Bogle (2013). *Using Very High Resolution Remotely Sensed Imagery to Estimate Agricultural Production in Two Kenyan Regions: A comparison of marginal and high productive agricultural zones*. American Geophysical Conference (AGU).

Grace, K. and S. Sweeney (2012). *Examining Parity Transitions During Fertility Stall*. European Population Conference (EPC).

Sweeney, S. and K. Grace (2012). *Assessing immigrant fertility adaptation: Recurrent event models of birth and migration histories*. SAM 2012 workshop: The statistical analysis of multi-outcome data.

Grace, K., J. Goldstein, and Y. Cheng (2010). *The Susceptibility of Fertility Measures to Random Fluctuations*. European Population Conference (EPC).

Grace, K. and S. Sweeney (2009). *Melting pot or mixed salad? Exploring assimilation and maintenance of fertility behavior of first and subsequent generation Central American women living in the United States*. International Union of the Scientific Study of Population (IUSSP).

Grace, K. (2009). *Contraceptive use and intent in Guatemala*. Population Association of America (PAA) Annual Meeting.

## **TEACHING AND GRADUATE MENTORSHIP**

### **POSTDOCTORAL RESEARCHERS AND RESEARCH SCIENTISTS**

Andrew Verdin (2018-2020)

Nina Brooks (2020-2021)

Jacqueline Banks (postdoctoral trainee MPC) (2019-2021)

Maya Luetke (2021-current)

Jiao Yu (2021-current)

### **COMMITTEE CHAIR (PH.D.)**

Maryia Bakhtsiyarava (co-chair) (completed PhD 2020, beginning postdoctoral fellowship at UC Berkeley, fall 2020)

Ruthie Burrows

Grace Cooper

Oforiwaa Pee Agyei-Boakye (co-chair)

### **COMMITTEE MEMBERSHIP (PH.D.)**

Marin Bryce (completed PhD 2018)

Han Li (completed PhD 2016)

Jacqueline Banks (completed PhD 2019)

Kwame Tsikudo (completed PhD 2019)

Brent Lloyd (completed PhD 2019)

Aaron Mallory (completed PhD 2020)

Jacqueline Daigneault (completed PhD 2020)

Anna Bolgrien (completed PhD 2021)

Morrison (Luke) Smith (in progress)

Jasper Johnson (in progress)

Isaac Asante-Wusu (in progress)

### **COMMITTEE CHAIR (MASTERS):**

Julia Reich (advised until Fall 2018)

Lori Miles (2014)

Delanie Farnham (2015)

Seth Bogle (advised until Fall 2016)

Michael Ryba (advised until Fall 2015)

### **COMMITTEE MEMBERSHIP (MASTERS):**

Kaila McDonald (2014)

Emily Nicolossi (2015)

Jessie Bakker (Completed MA, 2020)

## **UNDERGRADUATE MENTORSHIP:**

Maximilian Stiefel (honors thesis 2014, currently PhD student at UC Santa Barbara Geography)  
Marc Healy (Undergraduate Research Opportunity Program grant recipient, 2013/14)  
Eddy Urena (Undergraduate Research Opportunity Program grant recipient, 2018)  
Suzanne Scotty (Undergraduate Research Opportunity Program grant recipient, 2020)  
Kassandra Fate (Capstone Project)

## **TEACHING EXPERIENCE**

Geography of Health and Health care, University of Minnesota, Department of Geography, Environment and Society, Spring 2016, Spring 2017, Fall 2017, Fall 2018, Fall 2019, Fall 2020  
Global Health Survey Data analysis Spring 2019, Fall 2020, Spring 2021  
Population Geography, University of Minnesota, Department of Geography, Environment and Society, Spring 2017, Fall 2018  
Graduate Seminar: Statistical Methods, University of Minnesota, Department of Geography, Environment and Society, Fall 2017  
Analytic Methods for Population Research, University of Utah, Department of Geography, Fall 2013  
Economic Geography, University of Utah, School of Business, Spring 2013, Spring 2014, Fall 2014, Fall 2015  
Global Development, University of Utah, Department of Geography, Spring 2014  
Advanced Population Geography, University of Utah, Department of Geography, Spring 2013  
Population Geography, University of Utah, Department of Geography, Fall 2012, 2013, 2014, Fall 2015  
Guest Lecturer, Malnutrition and climate in Kenya in Spatial Statistics, Spring 2011  
Guest Lecturer, Fertility Analysis in Spatial Demography, Winter 2010 and Spring 2012  
Teaching Assistant, Center for Spatially Integrated Social Sciences (CSISS) - Spatial Perspectives on Analysis for Curriculum Enhancement (SPACE), UCSB, 2005 - 2007  
Graduate Research Mentor (high school summer outreach program), UCSB, 2005 - 2007  
Teaching Assistant, Human Geography, UCSB, Summer 2007  
Guest Lecturer, Global trends in Fertility for Population Geography, Winter 2007  
Teaching Assistant, Center for Spatially Integrated Social Sciences (CSISS) - Population Science Summer Workshop, UCSB, 2005 - 2006  
Teaching Assistant, Population Geography, UCSB, Fall 2005  
Teaching Assistant, Introductory Statistics, UCSB, 2004 - 2005

## **PROFESSIONAL SERVICE**

### **DISCIPLINE**

Deputy Editor Demography July 2022-  
Editorial Board Discover Social Science and Health Journal 2021-

Editorial Board Computers, Environment and Urban Systems Journal 2020-  
 Editorial Board CABI Agriculture and Biosciences Journal 2021  
 Editorial Board Spatial Demography 2018-  
 Editorial Board Population and Environment 2018-  
 Chair, Population and Environment Research Network 2021-  
 President, Population Specialty Group American Association of Geographers 2019-2022  
 Co-guest editor, Frontiers - Gender and social consideration in climates and impacts research  
 2020-2022  
 Advisory Board Population Environment Research Network 2019-2021  
 Organizing Committee Population Association of America Annual Meeting 2020  
 Session Organizer - Population Association of America Annual Meeting 2019  
 Session Chair - Population Association of America Annual Meeting 2018, 2022  
 Discussant - Population Association of America Annual Meeting 2018, 2022  
 Guest Editor Population and Environment - Special Issue 2018-2019  
 Vice-President, Population Specialty Group American Association of Geographers 2017-2019  
 Guest Editor Population and Environment 2018 and 2020  
 Discussant - Population Association of America Annual Meeting 2015  
 Student Poster Judge - American Geophysical Union Annual Meeting 2014  
 Session Co-Organizer - Population Association of America Annual Meeting 2014

## UNIVERSITY OF MINNESOTA

Diversity, equity and inclusion Committee Chair, Department of GES (2020-2021)  
 MPC Senior Faculty Search Committee, Minnesota Population Center (2018-2019)  
 GIS Faculty Search Committee co-Chair, Department of GES (2019)  
 Ad-hoc Merit Review Committee, Department of GES (2018-2019)  
 Merit Committee Chair, Department of GES (2018-2019)  
 Grievance Committee Chair, Department of GES (2018-2019 & 2020-2021)  
 Coffee Hour/Brown Day Organizing Committee Chair - Department of GES (2017-2018)  
 Graduate Education Policy Committee - Department of GES (2017-2020)  
 Admissions Committee - Department of GES (2016-2017)  
 Executive Committee - Department of GES (2016-2018)  
 Advisory Board Member - DASH (2018-current)  
 Fulbright Grant Reviewer (UMN) - (2017-2018)  
 Graduate Travel Grant Reviewer - (2017-2019)  
 Graduate School Advisory Board Member (2016-2019)  
 Advisory Board Member - Minnesota Population Center (2016-2019)  
 Co-Organizer (with Miranda Joseph) of Counter Accounting Workshop (2017)  
 Grants and Awards committee - Department of GES 2016  
 Parenting Across Roles, Invited Panelist Fall 2016  
 Parenting in Academia, Invited Panelist Spring 2016

## **UNIVERSITY OF UTAH**

Moderator - University of Utah, Undergraduate Research Conference 2014  
College of Social and Behavioral Sciences, Appeals Committee 2013 - 2015  
Department of Geography, Graduate Committee 2013 - 2015  
Department of Geography, Colloquia Committee 2012 - 2015

## **PROFESSIONAL MEMBERSHIP**

Association of American Geographers  
American Geophysical Union  
Population Association of America  
American Statistical Association

## **REVIEWER**

Nature Energy  
Nature Sustainability (x3)  
Nature Climate Change  
Nature Communication  
Proceedings of the National Academy of Sciences  
Science  
Lancet Planetary Health (x2)  
Demography (x4)  
American Sociological Review  
American Journal of Public Health  
Population and Development Review (x2)  
Scientific Data  
Food Policy  
Annals of the American Association of Geographers  
American Journal of Agricultural Economics  
Global Environmental Change (x3)  
Global Change Biology  
Population and Environment (x6)  
Spatial Demography (x2)  
Population (French Language) (x2)  
International Regional Science Review  
Scientific Reports  
Health and Place  
BMC Nutrition  
Public Health Nutrition  
Social Science and Medicine  
International Perspectives on Sexual and Reproductive Health (x2)  
PLOS One (x3)  
Remote Sensing Applications: Society and Environment

Health Science Journal  
Health and Place  
International Journal of Disaster Risk Reduction  
Landscape Ecology  
Health Education Journal  
Applied Geography (x4)  
Pan American Journal of Public Health (x3)  
Remote Sensing  
Urban Studies  
Population Review  
NASA LCLUC ROSES  
Ad-hoc NIH review panel (CHHD-W), 2021, 2022  
Swiss National Science Foundation (x2)  
NASA Postdoctoral Program  
National Science Foundation  
EPA Star Graduate Student Fellowship  
U of U Air Quality Program Seed Grant Funding Opportunity  
NASA SERVIR Applied Sciences Grant Opportunity  
JPI (Joint Programming Initiative) “Connecting Climate Knowledge for Europe”

## **COMMUNITY SERVICE**

Santa Barbara Charter School Parent Volunteer, 2011-2012  
Goleta Family School Parent Volunteer and Goleta Earth Day co-Organizer, 2006 - 2008  
Tulane University School of Public Health Student Health Representative, 2003 - 2004  
UC Berkeley Student Parent Organization Treasurer, 2001 - 2002  
UC Berkeley Family Student Housing Health Worker, 2001 - 2002

## **LANGUAGES AND SKILLS**

French, SAS, SPSS, R, ArcGIS, LaTeX