

Maia Averyl Call

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EDUCATION

The University of North Carolina at Chapel Hill

Chapel Hill, NC

Ph.D. in Geography

August 2017

Dissertation: *Rural Livelihoods and Environmental Change in Uganda*

- Recipient of the Eunice Kennedy Shriver National Institute of Child Health and Human Development Funded Carolina Population Center Pre-Doctoral Traineeship, 2012-2016

The University of North Carolina at Chapel Hill

Chapel Hill, NC

B.A. in Geography, Minor in American Studies, GPA 3.8 (Summa Cum Laude)

May 2012

- Dean's list 2009-2012
- Phi Beta Kappa

EXPERIENCE

The National Socio-Environmental Synthesis Center

Annapolis, MD

Postdoctoral Research Fellow

August 2017 – Present

- Initiated and led numerous quantitative research projects that resulted in manuscripts, conference presentations, and publications
- Engaged in collaborative, interdisciplinary research with researchers from disciplines including economics, sociology, hydrology, public policy, and climatology
- Organized and managed large amounts of social survey and biophysical data using software programs including ArcGIS, QGIS, STATA, and R
- Performed innovative spatial and statistical quantitative analyses using self-generated integrated socio-environmental datasets
- Wrote and published articles in top-tier academic journals including *World Development* and *Global Environmental Change*
- Led the organization of two years of conference sessions on environmental migration at the annual meeting of the American Association of Geographers

The Stimson Center

Washington, D.C.

Consultant

October 2018 – Present

- Contributed research expertise on climate change, vulnerability, and migration in the Caribbean for project linking climate change, research scarcity, and global security

- Supported research by providing expertise on data availability and management
- Supported international fieldwork by advising on interview methodology and analysis of results

The University of North Carolina at Chapel Hill

Chapel Hill, NC

Instructor, Introduction to Geographic Information

May 2017 – June 2017

- Developed and taught course material on the fundamental concepts of geographic information including datums, geographic coordinate systems, map projections, geographic positioning systems, raster and vector data, and cartography
- Designed and led hands-on interactive activities and labs on georeferencing, mapping GPS points, site suitability analysis, and cartography in the mapping software programs ArcGIS and QGIS
- Evaluated student performance through quizzes, labs, and exams and provided students with written and verbal constructive feedback

The University of North Carolina at Chapel Hill

Chapel Hill, NC

Graduate Research Consultant

January 2016 – May 2017

- Guided students in the development of research questions, data literacy, location of data, design of analytic approach, and production of final research papers and presentations
- Taught students to use ArcGIS Online, Esri Story Maps, and Tableau as tools for data management, exploration, visualization, and dissemination
- Led students in the production of a digital humanities project for use as a K-12 teaching tool by the University of North Carolina at Chapel Hill's Middle East Center (<http://waterandconflict.web.unc.edu/>)
- Lectured on quantitative methods including the analysis of vector, raster, and socioeconomic data as well as effective data communication and visualization

The University of North Carolina at Chapel Hill

Chapel Hill, NC

Graduate Researcher

August 2012 – August 2017

- Contributed to the design of the structured survey used in a national-scale NSF-funded research project on soil degradation in Uganda
- Designed and implemented semi-structured interviews with Ugandan smallholders in four districts of Uganda
- Trained Ugandan survey enumerators to collect Geographic Positioning Satellite data as part of a NSF-funded research project
- Managed, organized, and developed metadata, data management plans, and codebooks for household survey, soil sample, and geospatial data from national-scale survey of Uganda

- Employed statistical methods including multilevel modeling and panel data approaches to analyze household, community, and agricultural plot-level longitudinal data
- Developed a novel spatial matching approach to analyze longitudinal soil data from an agricultural plot
- Managed undergraduate researchers in research dissemination, methods, and programming in Stata and R
- Presented original research at local, national, and international conferences
- Wrote and published original research in peer-reviewed academic journals

The University of North Carolina at Chapel Hill

Chapel Hill, NC

Research Assistant at the Odum Institute for Research in Social Science

May 2012 – August 2012

- Developed spatial dataset of county-level longitudinal American Community Survey and Census data using R and ArcGIS
- Consulted with researchers and local non-profits on geospatial data management and analysis techniques as well as cartography
- Assisted in the organization, and instruction, of a seminar on spatial statistics

The University of North Carolina at Chapel Hill

Chapel Hill, NC

Digital Production Center Assistant at the Wilson Library

February 2009 – August 2012

- Digitized and post processed in Adobe Photoshop over 3,000 North Carolina Sanborn Fire Insurance Maps from the late 1800s and early 1900s
- Scanned and post processed in Adobe Photoshop thousands of postcards from the North Carolina postcard collection
- Scanned and used optical character recognition to make searchable thousands of old handwritten and printed documents
- Digitized rare and valuable maps from the 14, 15, 16, and 1700s produced by cartographers including Gerardus Mercator

RELEVANT SKILLS

Software	Stata, R, ArcGIS, QGIS, ENVI, Tableau, Microsoft Word, Excel, Access, and PowerPoint
Languages	English (native speaker), Spanish (beginner)
Training	U.S. Policy Communication Training Program (Population Reference Bureau), Teaching practicum in Geography (The University of North Carolina at Chapel Hill)

Mentoring Mentored undergraduate honors thesis students through the conception, data organization and management, analysis, and dissemination processes

GRANTS, FELLOWSHIPS, AND AWARDS

Postdoctoral Research Fellowship, 2017-2019

The National Socio-Environmental Synthesis Center (\$210,000)

Population Geography Specialty Group Paper Award, 2017

The American Association of Geographers (\$300)

Doctoral Dissertation Completion Fellowship, 2016-2017

The University of North Carolina at Chapel Hill (\$18,000)

Carolina Population Center Summer Research Residency, 2014

The University of North Carolina at Chapel Hill (\$1,500)

Center for Global Initiatives Pre-Dissertation Travel Grant, 2014

The University of North Carolina at Chapel Hill (\$3,000)

PUBLICATIONS

Peer-Reviewed Journal Articles

Call, M. and S. Sellers. (2019). How does gendered vulnerability inform livelihood responses to climate change? *Environmental Research Letters*.

Call, M., C. Gray, and P. Jagger. (2019) Smallholder livelihood responses to climate anomalies in Uganda. *World Development*, 115, 132-144.

Call, M., C. Gray, M. Yunus, and M. Emch. (2017). Disruption, not displacement: Environmental variability and temporary migration in Bangladesh. *Global Environmental Change*, 46, 157-165.

Call, M. and P. Jagger. (2017). Social capital, collective action, and communal grazing lands in Uganda. *International Journal of the Commons*, 11(2).

Call, M.*, T. Mayer*, S. Sellers*, D. Ebanks*, M. Bertalan*, E. Nebie*, and C. Gray. (2017). Socio-environmental drivers of forest change in rural Uganda. *Land Use Policy*, 62, 49-58. *Authors contributed equally to this research

Call, M. and P. R. Voss. (2016). Spatio-temporal dimensions of child poverty in America, 1990-2010. *Environment and Planning A*, 48(1), 172-191.

Manuscripts in Preparation (Drafts available upon request)

Maia Call, Clark Gray. "What drives environmental migrants? Longitudinal evidence from Uganda." (Revise and resubmit with *Population and Environment*)

Maia Call. “From perceptions to practices: Untangling soil fertility, soil degradation and agricultural management strategies in Uganda.” (Under review with the *Journal of Rural Studies*)

Maia Call, Sam Sellers. “How does gendered vulnerability shape the adoption and impact of sustainable livelihood interventions in an era of global climate change?” (Under review with *Environmental Research Letters*)

Maia Call, Lori Hunter. “The gender dynamics of climate-migration in Indonesia.” (In preparation)

Clark Gray, **Maia Call,** Michael Emch, Richard Bilsborrow. “Indigenous health in the Ecuadorian Amazon: A multilevel and longitudinal analysis.” (In preparation)

Erika Munshi, **Maia Call,** Clark Gray. “Impact of Climate Variability on Agriculture and Food Security in Ugandan Households” (In preparation)

Other Publications

Maia Call. “The persistence of child poverty since 1990 despite massive social and economic changes reinforces the importance of place-based policies.” Invited blog post for the London School of Economics US Centre.

<http://blogs.lse.ac.uk/usappblog/2016/01/26/the-persistence-of-child-poverty-since-1990-despite-massive-social-and-economic-changes-reinforces-the-importance-of-place-based-policies/>

PRESENTATIONS

2019 **M. Call,** C. Gray, P. Jagger. “Smallholder responses to climate variability.” *American Association of Geographers*. Washington, D.C. April 3-7.

2018 **M. Call,** L. Hunter. “The gender dynamics of climate migration in Indonesia.” Migration, Environment, and Climate: What risk inequalities? IUSSP International Conference. Paris, France. October 22-23.

M. Call, L. Hunter. “The gender dynamics of climate migration in Indonesia.” Boundary Spanning: Advances in Socio-Environmental Systems Research. Annapolis, MD. June 11-13.

M. Call, L. Hunter. “The gender dynamics of climate migration in Indonesia.” *Population Association of America*. Denver, CO. April 26-28.

M. Call, L. Hunter. “The gender dynamics of climate migration in Indonesia.” *American Association of Geographers*. New Orleans, LA. April 10-14.

2017 **M. Call,** C. Gray, P. Jagger. “Climate variability and rural livelihood diversification in Uganda.” *Population Association of America*. Chicago, IL. April 27-29.

M. Call, C. Gray. “What drives environmental migrants? Longitudinal evidence from Uganda.” *Population Association of America*. Chicago, IL. April 27-29.

M. Call, C. Gray. "What drives environmental migrants? Longitudinal evidence from Uganda." *American Association of Geographers*. Boston, MA. April 5-9.

2016 **M. Call**, C. Gray, M. Yunus, and M. Emch. "Disruption, not displacement: The role of climate variability in temporary migration." *IPOPs International Young Researchers' Conference on the impacts and challenges of demographic changes*, organized by the French Institute for Demographic Studies. Paris, France. September 22-23.

M. Call, C. Gray, M. Yunus, and M. Emch. "Climate Events and Temporary Migration in Matlab, Bangladesh." *Population Association of America*. Washington, D.C. March 31-April 2.

Call, M.*, T. Mayer*, S. Sellers*, D. Ebanks*, M. Bertalan*, E. Nebie*, and C. Gray. "Socio-Environmental Drivers of Forest Change in Rural Uganda." *Population Association of America*. Washington, D.C. March 31-April 2.

Clark Gray, **Maia Call**, Michael Emch, Richard Bilsborrow. "Indigenous health in the Ecuadorian Amazon: A multilevel and longitudinal analysis." *Population Association of America*. Washington, D.C. March 31-April 2.

2015 **M. Call**, P. Voss. "Spatio-Temporal Dimensions of Childhood Poverty in America." *Population Association of America*. San Diego, CA. April 30-May 2.

AFFILIATIONS

American Association of Geographers - Member, Conference Presenter, and Session Organizer

Population Association of America - Member, Conference Presenter, Session Discussant, and Session Chair