

Cassandra L. Workman

Curriculum Vitae

Department of Anthropology | Graham 443
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EDUCATION

- Ph.D. Department of Applied Anthropology, University of South Florida, 2013
MPH Department of Epidemiology and Biostatistics, University of South Florida, 2009
M.A. Department of Anthropology, Western Michigan University, 2003
B.A. Department of Anthropology, Northern Illinois University, 2000

ACADEMIC EXPERIENCE

- 2019-present Assistant Professor, Department of Anthropology, University of North Carolina at Greensboro
Supervisor, Water, Anthropology and Health (WASH) Social Science Lab.
2018-2019 Lecturer, Department of Sociology and Anthropology, North Carolina State University
Core Member, Global Water, Sanitation, and Hygiene (WaSH) Cluster.

PUBLICATIONS

Peer Reviewed Journal Articles

- 2020 Meehan, Katie, Wendy Jepson, Leila M. Harris, Amber Wutich, Melissa Beresford, Amanda Fencl, Johnathan London, Gregory Pierce, Lucero Randonic, Christian Wells, Nicole Wilson...**Cassandra L. Workman** & Sera Young [author #22/23, alpha after #11]. "Exposing the myths of household water insecurity in the global North: a critical review." *WIREs Water*. 7:e1486. DOI: 10.1002/wat2.1486
This paper was drafted following a workshop (November 2019) in which we discussed water insecurity in the global North. All authors contributed ideas and text to the final paper, which was ultimately drafted by the first 11 authors. The authors 11-23 all then edited the draft. Percent contribution: 20% (4 points).
- 2020 Boateng, Godfred O., **Cassandra L. Workman**, Joshua D. Miller, Maricianah Onono, Torsten B. Neilands & Sera L. Young. "The syndemic effects of food insecurity, water insecurity, and HIV on postpartum depression among Kenyan women" *Social Science & Medicine*. Published online 15 May 2020. DOI: 10.1016/j.socscimed.2020.113043

- 2020 Brewis, Alexandra, **Cassandra L. Workman**, Amber Wutich, Wendy Jepson, Sera L. Young, & the HWISE-RCN. "Household Water Insecurity is Strongly Associated with Food Insecurity: Evidence from 27 Sites in Low- and Middle-Income Countries." *American Journal of Human Biology* e23309; DOI:10.1002/ajhb.23309.
- 2019 **Workman, Cassandra L.** "Ebbs and flows of authority: Water resource management, decentralization and development in Lesotho." *Water*. 11(184); DOI:10.3390/w11020184
- 2019 **Workman, Cassandra L.** "Perceptions of Drinking Water Cleanliness and Health Seeking Behaviours: A Qualitative Assessment of Household Water Safety in Lesotho, Africa." *Global Public Health*. 1-13. DOI: 10.1080/17441692.2019.1566483.
- 2019 Brewis, Alexandra, Asher Rosinger, Amber Wutich, Ellis Adams, Lee Cronk, Amber Pearson, **Cassandra Workman**, Sera Young, & the HWISE Consortium. (alpha order after #3) "Water sharing, reciprocity, and need: A comparative study of inter-household water transfers in Sub-Saharan Africa." *Economic Anthropology*. DOI:10.1002/sea2.12143
- Percent contribution: 20% (4 points). I conducted the descriptive statistical analyses and developed associated figures. I assisted with the literature review, interpretation of data, the writing of the introduction, discussion and conclusion.
- 2018 Wutich, Amber, Jessica Budds, Wendy Jepson, Leila Harris, Ellis Adams, Alexandra Brewis, Lee Cronk, Christine DeMyers, Kenneth Maes, Tennille Marley, Joshua Miller, Amber Pearson, Asher Rosinger, Roseanne Schuster, Justin Stoller, Chad Staddon, Polly Wiessner, **Cassandra Workman** & Sera Young. (alpha order after #3) "Household water sharing: A review of water gifts, exchanges, and transfers across cultures." *Wiley Interdisciplinary Reviews (WIREs): Water* 5: e1309
- Percent contribution: 10% (2 points). We submitted sections for this paper and then met about it at a workshop to refine our thinking and to work on the paper. I contributed to the paper as a whole, including content and editing.

HWISE Research Coordination Network Publications (Including C.L. Workman)

- 2020 Rosinger, Asher Y., Alexandra Brewis, Amber Wutich, Wendy Jepson, Chad Staddon, Justin Stoler, Sera L. Young and the **HWISE Research Coordination Network**. "Water borrowing is consistently practiced globally and is associated with water-related system failures across diverse environments." *Global Environmental Change* 64: 102148.
- 2020 Schuster, Roseanne C., Margaret S. Butler, Amber Wutich, Joshua D. Miller, Sera L. Young & the **HWISE Research Coordination Network**. "'If there is no water, we cannot feed our children': The far-reaching consequences of water insecurity on infant feeding practices and infant health across 16 low-and middle-income countries." *American Journal of Human Biology* 32, no. 1 (2020): e23357 DOI: 10.1002/ajhb.23357

- 2019 Young, S, Boateng, G, Jamaluddine, Z, Miller, J, Frongillo, E, Neilands, T, Collins, S, Wutich, A, Jepson, W, Stoler, J, & the **HWISE Research Coordination Network**. The Household Water InSecurity Experiences (HWISE) Scale: development and validation of a household water insecurity measure for low- and middle-income countries. *BMJ Global Health* 4(5): e001750. doi:10.1136/bmjgh-2019-001750
- 2019 Young, Sera L., Shalean M Collins, Godfred O. Boateng, Torsten B. Neilands, Zeina Jamaluddine, Joshua D. Miller, Alexandra Brewis, Edward A. Frongillo, Wendy E. Jepson, Hugo Melgar-Quiñonez, Roseanne C. Schuster, Justin Stoler, Amber Wutich on behalf of the **HWISE Research Coordination Network** “A protocol for the development and validation of an instrument to measure household water insecurity across cultures: the Household Water InSecurity Experiences (HWISE) Scale” *BMJ Open* 9:e023558. doi:10.1136/bmjopen-2018-023558

Book Reviews

- 2019 “Review of *Infected Kin: Orphan Care and AIDS in Lesotho* by Ellen Block and Will McGrath” *Journal of Social Encounters* 3(1):101-102

In Submission

Workman, Cassandra L., Maryann R. Cairns, Francis L. de los Reyes & Matthew E. Verbyla. “Global WaSH Approaches: Anthropological Contributions and Future Directions for Engineering” *Environmental Engineering Science*. Revised & resubmitted.

Stoler, Justin, Joshua D Miller, Alexandra Brewis, Matthew Freeman, Leila Harris, Wendy Jepson, Amber L Pearson, Asher Y. Rosinger, Sameer Shah, Chad Staddon, **Cassandra L. Workman**, Amber Wutich, Sera L. Young & the Household Water Insecurity Experiences Research Coordination Network (alpha order after #2). “Household Water Insecurity Will Complicate COVID-19 Prevention and Response: Evidence from 29 Sites in 23 Low- and Middle-Income Countries.” *International Journal of Hygiene and Environmental Health*. Forthcoming.

Workman, Cassandra L. and Kenneth Mapunda “The water should flow everyday”: Situating health at the intersection of water cuts and flooding. *Journal of Southern African Studies*.

Workman, Cassandra L. Justin Stoler, Angela Harris, Ayse Ercumen, Josh Kearns & Kenneth Mapunda. “Food, Water and Sanitation Insecurity: Complex Exposure Pathways and the Challenge to Define Comprehensive WaSH Insecurity.” *Global Public Health*.

Wutich, Amber, Melissa Beresford, Theresa Montoya, Lucero Radonic, and **Cassandra L. Workman** (alpha order after first). “Water Security and Scarcity.” *Oxford Research Encyclopedia of Anthropology*.

Miller, Joshua D., **Workman, Cassandra L.**, Sarita Vijay Panchang, Gretchen Sneegas, Ellis A. Adams, Sera L. Young & Amanda L. Thompson. “Water security and nutrition: current knowledge and research opportunities.” *Advances in Nutrition*.

In Preparation

Shah, Sameer & **Cassandra L. Workman**. “Co-constructing identity and water security: Race, infrastructural exclusioning and nostalgic futures in North Carolina.” *Annals of the American Association of Geographers*.

Workman, Cassandra L. “In these unprecedented times:” Culture, memory and “forgotten plagues.” *Abstract under consideration at Human Organization (special COVID issue)*

Workman, Cassandra L., Kenneth Mapunda, Sameer Shah, Joshua D. Miller, Yihew Tesfaye, Kenneth Maes & Sera L. Young. “Comparing the severity and the frequency of water insecurity experiences in Morogoro Urban, Tanzania.” *TBD*.

Workman, Cassandra L. “Towards a Geography of Sanitation: Using Visual Methods to Explore Place-Making in Morogoro, Tanzania.” *Geoforum*.

GRANTS & AWARDS

Grants

- 2020-22 National Science Foundation. Cultural Anthropology Program, Senior Research Award. *Collaborative Research: Exploring Syndemic Water Insecurity: Synthesizing Objective and Subjective Measures of Multi-Scale Resource Insecurity*. NSF #s 1951006 and 1950212. Role: PI. \$89,098 (Total collaborative award: \$174, 237, co-PI Angela Harris, NCSU)
- 2019 Gates Foundation/NC State. Sub-Award. *Commercial Partner Engagement for Trash Excluder*. Role: Social Science and Gender Specialist. PI: Francis de los Reyes, North Carolina State University. \$40,076

Awards

- 2020-2021 Junior Research Excellence Award, University of North Carolina at Greensboro. Nominated.

In Submission

US Agency for International Development (USAID)/National Academy of Sciences: Partnerships for Enhanced Engagement in Research (PEER). Bridging Higher Education and Practice: Addressing Gender Inequity in STEM and Sanitation in Malawi. PI: Brighton Chunga, Mzuzu University (Malawi). Role: USG-Supported Partner (NSF-funded Partner)/Senior Social Science Advisor. Total Award: \$199,491. UNCG: No financial support.

National Science Foundation. Gen-4 Engineering Research Centers. *NSF Engineering Research Center for Sanitation and Water Infrastructure of the Future for Marginalized Communities (SWIFt-MC)*. Pre-Proposal. Role: Key Personnel (Social Scientist).

In Preparation

Faculty First Award (Internal). *Exploring Syndemic Water Insecurity: Synthesizing Objective and Subjective Measures of Multi-Scale Resource Insecurity*. Role: PI. \$5,000

Supervised Student Research

Varin, Eric. UNCG Undergraduate Research, Scholarship and Creativity Office (URSCO)/Undergraduate Research and Creativity Award (URCA). Are video games bad for you?: An anthropological take on a 21st century question. Funded summer 2020. \$5000. Role: Faculty Mentor

Study approved by UNCG IRB. Data collected summer/fall 2020. Paper abstract submitted to Society for Applied Anthropology (virtual) conference, March 2021.

Barrington, Saige. UNCG Undergraduate Research, Scholarship and Creativity Office (URSCO)/Undergraduate Research and Creativity Award (URCA). Improving Gender Equity in Sanitation Education in Malawi: An Anthropological Assessment. Approved for funding but cancelled due to COVID-19 travel restrictions. Role: Faculty Mentor.

RESEARCH EXPERIENCE

2020-present Multiscalar Approaches to Understanding Syndemic Water Insecurity (Tanzania). Funded NSF. Summer travel postponed due to COVID-19. Beginning remote data collection in 2021.

2020-present Commercial Partner Engagement for Trash Excluder (Ghana). Funded NC State/Gates Foundation (sub-award). Traveled to Tamale Ghana for preliminary data collection. Household surveys in Ghana to commence spring 2021.

2020-present Improving Gender Equity in Sanitation Education in Malawi. Travel to Malawi summer 2020 postponed due to COVID. Presently seeking funding for this research (USAID proposal funded for 2021).

2019 Understanding community risk and resilience. Exploratory qualitative research in eastern North Carolina. Collaborators: East Carolina University & North Carolina State University.

2018 Site PI, Household Water Insecurity Experiences (HWISE) Project. Northwestern University/Workman Consulting, Morogoro, Tanzania

Supervised administration of HWISE battery to 300 households in Morogoro, Tanzania. Designed and administered supplemental water, sanitation & hygiene (WaSH) quantitative and qualitative component

COLLABORATIVE RESEARCH ACTIVITIES

2017-present **Consortium Member.** Household Water InSecurity Experiences (HWISE) Study (Sera Lewise Young, Northwestern University, PI)

INVITED LECTURES

- 2020 “Understanding Complex Resource Insecurity: Interdisciplinary Approaches & Future Directions.” Strong Coasts Webinar, Strong Coasts NRT Program, University of South Florida & University of the Virgin Islands.
- 2019 “Syndemic Food and WASH Insecurity: Social Science Approaches and Future Directions.” Global Spotlight Lecture, International and Global Studies Program, University of North Carolina at Greensboro.

INVITED WORKSHOPS

- 2019 Water Insecurity in High-Income Countries. Invited workshop organized by the Household Water Insecurity Experiences (HWISE) Network. University of British Columbia, November 17-19.
- 2018 Water Sharing. Invited workshop organized by the Household Water Insecurity Experiences (HWISE) Network. Arizona State University, February 27-March 1.

MEDIA ENGAGEMENT

University

- 2020 New Anthropology Course Explores Pandemics. Interview with UNCG News. Published online November 17, 2020. <https://news.uncg.edu/new-anthropology-course-explores-pandemics/>
- 2020 Covid-19 and the Human Experience: An Anthropological Perspective. Interview with UNCG News. Published online July 7, 2020. <https://news.uncg.edu/covid-19-human-experience-anthropological-perspective/>

CONFERENCE ACTIVITY

Panels Organized

- 2019 Risk and Resilience: Understanding Shifting Domestic Hydroecologies in the Context of Climate Change. Cynthia A. Grace-McCaskey and Cassandra Workman, co-Organizers. Society for Applied Anthropology, Portland, OR, March 19-20.

2018 Applying the Anthropological Imagination: Adapting Anthropology for Resistance and Resilience. Jason Miller and Cassandra Workman, co-Chairs. American Anthropological Association. San Jose, CA, November 14-18.

Papers

- 2021 Comparing the severity and the frequency of water insecurity experiences in Morogoro Urban, Tanzania: Implications for measurement. C.L. Workman, K. Mapunda, Y. Tesfaye, K. Maes & S.L. Young. Abstract submitted to the Society of Applied Anthropology, Norfolk, VA, March 23-27.
- 2021 Co-constructing identity and water security: Race, infrastructural exclusioning and nostalgic futures in North Carolina. C.L. Workman and S. Shah. Abstract submitted to the American Association of Geographers, Seattle, WA, April 7-11.
- 2020 Anthropology at the Headwaters: Methods, Training, and Experiences from NSF-funded Interdisciplinary Research on Water. Role: Roundtable participant. American Anthropological Association, St. Louis, MO. Meetings postponed until 2021 due to COVID-19.
- 2020 Global WASH Insecurity: Social Science Contributions and Future Directions. C.L. Workman and M. Cairns. Society for Medical Anthropology, Havana, Cuba, March 9-12. Did not attend due to COVID-19.
- 2019 Syndemic effects of food insecurity, water insecurity, and HIV on maternal depression among a Kenyan cohort. GO Boateng, C Workman, J Miller, M Onono, S Young. American Public Health Association, Philadelphia, PA, November 2-6.
- 2019 Towards a comprehensive geography of sanitation: Using mixed-methods to explore place-making in Morogoro, Tanzania. American Association of Geographers, Washington, DC, April 3-7.
- 2019 Burdened by Both: Coping and Disease at the Intersection of Water and Food Insecurity. A.S. Brewis and C.L. Workman. Human Biology Association, Cleveland, OH, March 27-28.
- 2019 Chronic and catastrophic vulnerability: Understanding the bidirectional risk between water and agribusiness in the context of shifting hydroecology. Society for Applied Anthropology, Portland, OR, March 19-23.
- 2018 Celebrating the Legacy of Kathryn M. Borman. Presenter: Retrospective Roundtable. American Anthropological Association, San Jose, CA, November 14-18.

TEACHING EXPERIENCE

Anthropology of Global Water, Sanitation & Hygiene (WASH) (new)

University of North Carolina at Greensboro (spring 2021)

History of Anthropological Theory (redesigned)

University of North Carolina at Greensboro (spring 2021)
Pandemics, Plagues & Outbreaks (new)
University of North Carolina at Greensboro (fall 2020)
Anthropology of Infectious Disease (new)
University of North Carolina at Greensboro (spring 2020)
Reading Culture (redesigned)
University of North Carolina at Greensboro (2019-2020)
Introduction to Cultural Anthropology
University of North Carolina at Greensboro (2019-2020)

STUDENT MENTORING/COMMITTEE PARTICIPATION

2020 Saige Barrington. WASH Lab student. Supervised literature review, development of interview guides and IRB submission. Role: Mentor/Lab Supervisor
Travel to Ghana for data collection (Commercial Excluder project) cancelled due to COVID.

2020 Eric Varin. WASH Lab student. Trained in qualitative analysis. Supervised coding and analysis of data from Tanzania. Role: Mentor/Lab Supervisor

2019-present Heidi Liles. UNCG Sociology, master's student. Role: Committee member

2019-present William (Alex) Webb. University of South Florida, Ph.D. student. Role: Committee member.

PROFESSIONAL SERVICE

Proposal Review

LASER PULSE (USAID/Purdue University)

Manuscript Review

Social Science & Medicine

Culture, Agriculture, Food and Environment (CAFE)

Environment, Development and Sustainability

Water SA

Economic Anthropology

Global Public Health

Women's Studies International Forum

Human Organization

Water

Cambridge Journal of Regions, Economy and Society

American Journal of Tropical Medicine and Hygiene

Bulletin of the WHO

International

2020-present Leader of **Early Career Collaborative Writing Group**, NSF-funded Household Water Insecurity (HWISE) Research Coordination Network

2018-present **Steering Committee Member.** Household Water Insecurity (HWISE) Research Coordination Network. National Science Foundation. Geography and Spatial Sciences Program. Wendy Jepson (Texas A&M University, PI), Justin Stoler (University of Miami, Co-PI), Amber Wutich (Arizona State University, Co-PI), and Sera Young (Northwestern University, Co-PI). \$500,000.

Community/University

2020 "Pandemics, Plagues & Outbreaks: What Can History Tell Us About COVID-19?" Virtual lecture presented to the Draelos Scholars Virtual Academy Series, Office of Research and Engagement, University of North Carolina at Greensboro.

Department

2019-20 Faculty Coordinator, State Employees Combined Campaign.

2020-present Faculty Liaison, Student Anthropology Club

PROFESSIONAL ASSOCIATIONS

American Anthropological Association, 2001–Present

Anthropology and Environment Society

Association for Africanist Anthropology

National Association for the Practice of Anthropology

Society for the Anthropology of Food and Nutrition.

Society for Medical Anthropology

Society for Applied Anthropology, 2005–Present

Society for International Development, 2012–Present

American Association of Physical Anthropology, 2018–Present

American Association of Geographers, 2018–Present

LANGUAGES

English: native speaker

Spanish: reading, writing, speaking

Kiswahili: reading, writing, speaking

Portuguese: reading