

# SERA L. YOUNG

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## MAJOR PROFESSIONAL INTERESTS

I am a nutritional anthropologist who explores how vulnerable populations, especially women and children, adapt to challenges to their health and well-being.

Keywords: Nutritional anthropology; medical anthropology; global health; international nutrition; maternal and child nutrition; pica; food insecurity; water insecurity; HIV; infant and young child feeding.

## CURRENT APPOINTMENTS

**Northwestern University, Evanston, IL** :: Anthropology & Global Health, Associate Professor— September 2019 — present; Assistant Professor — August 2016-August 2019. *Affiliations*: Institute for Policy Research Faculty Fellow; Global Health Studies; Buffett Institute for Global Studies; Northwestern Center for Water Research; Third Coast Center for AIDS; Program in African Studies.

**The Field Museum of Natural History, Chicago, IL** :: Adjunct Curator — October 2016-present.

**McGill University, Montreal, Canada** :: Professor of Practice — February 2020-present.

## PREVIOUS APPOINTMENTS

**Cornell University, Ithaca, NY** :: Department of Population Medicine and Diagnostics, Assistant Professor of Global Health and Nutrition— August 2015-July 2016; Adjunct Assistant Professor of Global Health and Nutrition— August 2016-December 2019.

**Cornell University, Ithaca, NY** :: Division of Nutritional Sciences, Research Scientist — July 2011-July 2015.

**University of California, San Francisco** :: Department of Obstetrics, Gynecology, and Reproductive Sciences, Reproductive Infectious Diseases Fellow — 2010-2011.

**University of California, Davis, CA** :: Department of Pediatrics, Assistant Researcher — 2008-2011.

**University of California, Berkeley, CA** :: School of Public Health, Assistant Researcher — 2008.

## EDUCATION

**Cornell University :: Ithaca, NY** — 2003-2008

PhD in Nutritional Anthropology. Division of Nutritional Sciences. Chair: Gretel Pelto.

**University of Amsterdam :: Amsterdam, the Netherlands** — 2001-2002

MA in Medical Anthropology. Highest Honors. Advisor: Sjaak van der Geest.

**Taasisi Institute of Kiswahili and Foreign Languages :: Zanzibar, Tanzania** — 2000

Introduction, Intermediate, and Advanced Swahili Courses.

**University of Michigan :: Ann Arbor, MI** — 1995-1999

BA in Anthropology. High Honors. Secondary Level Teaching Certificate.

**Katholieke Universiteit of Leuven :: Leuven, Belgium** — 1996-1997

Junior Year Abroad Program through the University of Pennsylvania.

**United World College of the Atlantic :: Wales, UK** — 1993-1995

International Baccalaureate.

## CURRENT SUPPORT

**Carnegie Foundation** :: “A New Way to Think About Water: Household Water Insecurity” — Sera Young (PI) 2019-2021 (\$200,000)

**USAID** (via Rutgers University Policy Research Consortium) :: “A novel indicator of household water insecurity and household food insecurity in East Africa: health, agriculture, and policy implications” — Lori Post (PI), **Sera Young** (co-PI) (\$200,000)

**The Nature Conservancy** :: Monitoring human well-being after natural infrastructure installation: A NatureNet Fellowship — Sera Young (PI), Vidya Venkataramanan (Fellow). 2019-2021 (\$22,100)

**National Science Foundation (NSF)** :: RCN: Building a Community of Practice for Household Water Insecurity (HWISE) Research — Wendy Jepson (PI), **Sera Young** (co-PI), Amber Wutich (co-PI), & Justin Stoler (co-PI). 2018-2023 (\$500,000)

**Crown Family Center for Jewish and Israel Studies (Northwestern University)** :: “A field-ready tool to assess the health consequences of water insecurity in the West Bank” — **Sera Young** (PI) & Yaakov Garb (co-PI). 2019-2021 (\$12,000)

**National Science Foundation (NSF) Convergence RAISE** :: “Systems Approaches for Vulnerability Evaluation and Urban Resilience” — Aaron Packman (PI) & **Sera Young** (co-PI). 2018-2021 (\$1,000,000)

**Crown Family Center for Jewish and Israel Studies (Northwestern University)** :: “Simple tools to measure water insecurity in Israel: A collaboration across the social, physical, and biological sciences” — **Sera Young** (PI), Julius Lucks (co-PI), & Noam Weisbrod (co-PI). 2018-2020 (\$29,000)

**Resnick Family Social Impact Fund (Northwestern University Institute for Sustainability & Energy)** :: To support the Household Water Insecurity Experiences study and an urban flooding project in Chicago — **Sera Young** (PI). 2017-2020 (\$25,000)

## COMPLETED GRANTS AND FELLOWSHIPS

**Innovative Metrics in Nutrition and Agriculture (IMMANA)** :: “A novel tool for the assessment of household-level water insecurity: scale refinement, validation, and manual development” — Sera Young (PI), Phelgona Otieno (co-I) & Amber Wutich (co-I). 2016-2018 (\$359,625)

**McKnight Foundation** :: “Singida Nutrition and Agroecology Project (SNAP)” — Rachel Bezner Kerr (PI), **Sera Young** (co-PI), & Elias Mitnda (co-PI). 2015-2019 (\$674,800); <http://bit.ly/farm4change>

**National Institute of Mental Health (NIMH)** :: R21 “Health Consequences of Water Insecurity for HIV+ Women & Their Infants” — Sera Young (PI) & Maricianah Onono (co-I). 2016-2018 (\$337,214)

**Water Collaboration Seed Funds** :: To pursue measurement of household water insecurity in Israel and Taiwan — **Sera Young** (PI) & Noam Weisbrod (co-PI). 2017-2018 (\$25,000)

**Crown Family Middle East Research Travel Award** :: Water Insecurity among Syrian refugees in Lebanon — **Sera Young** (PI). 2017-2018 (\$15,000)

**National Institutes of Health (NIMH)** :: K01 Health Consequences of Food & Nutrition Insecurity for HIV+ Women & Their Infants — **Sera Young** (PI). 2012-2018 (\$853,970)

**Northwestern Institute for Policy Research (IPR)** :: Support for workshop entitled “Household Water Insecurity: Measurement, Consequences, and Policy Implications” — **Sera Young** (PI). 2016-2017 (\$20,000)

**Center for Water Research Conference Award** :: To support the Household Water Insecurity Scale Development Workshop — **Sera Young** (PI). 2017 (\$5,000)

**Buffett Conference Award** :: To support the Household Water Insecurity Scale Development Workshop — **Sera Young** (PI). 2017 (\$4,000)

**Northwestern Third Coast Center for AIDS Research (CFAR) ::** “Coalition building between Northwestern University, Pamoja Community-Based Organization, and Kenya Medical Research Institute/Research Care and Training Program-Family AIDS Care and Educational Services”— **Sera Young** (PI), Patrick Mbullo (co-I), & Pauline Wekesa (co-I). 2016-2017 (\$5,000)

**Atkinson Center for Sustainable Future Venture Fund ::** A novel assay for simultaneous multiplex detection of diarrhea-causing viruses, bacteria, and protozoa in drinking water and deployment in Kenyan and Honduran households — Ruth Richardson (PI) & **Sera Young** (co-PI). 2015-2017 (\$132,558)

**CARE/Atkinson Center for Sustainable Future Impact through Innovation Fund ::** A pilot study of the effects of performance-based incentives on the provision of PMTCT services in Inhassoro District, Inhambane Province, Mozambique — **Sera Young** (PI) & Delphine Pinault (co-I). 2012-2014 (\$200,000)

**Atkinson Center for Sustainable Future Venture Fund ::** Healthy Soil + Fertile Land + Food Security — Rachel Bezner Kerr (PI), **Sera Young** (co-I), David Wolfe (co-I), & Laurie Drinkwater (co-I). 2014-2016 (\$143,344)

**Seed Grants for Collaborations Between Cornell University-Ithaca and Weill Cornell Medical College Faculty ::** Food insecurity as a novel diagnostic screening tool for poor nutritional and psychosocial outcomes among HIV-infected and -uninfected lactating Ugandan women and their infants — **Sera Young** (PI) & Nicole Sirotin (co-PI). 2013-2014 (\$50,000)

**Cornell Population Center ::** “Development of appropriate methodologies for estimating dietary intake among nutritionally vulnerable women and infants in rural and peri-urban Kenya” — **Sera Young** (PI). 2013-2014 (\$2,500)

**Pears Seed Grant Program, Faculty of Medicine, Hebrew University ::** Food Insecurity and Nutritional status of patients Infected with Tuberculosis and Human Immunodeficiency Virus in Gulu, Northern Uganda — Rachel Bezner Kerr (PI) & **Sera Young** (co-I). 2013-2014 (\$5,500)

**National Institutes of Health (NICHD) ::** P01 Novel Strategies to Prevent Malaria and Improve HIV Outcomes in Africa — 2011-2013 (sub-contract PI, \$63,700)

**Campbell Foundation ::** Clinical study of Flash heating breastmilk to decrease morbidity, improve growth, and reduce HIV transmission in HIV-exposed infants — Caroline Chantry (PI) & **Sera Young** (co-PI). 2010-2011 (\$50,000)

**National Institutes of Health (NICHD) ::** R34 Planning grant to fund the preparation of a large multi-disciplinary study of Flash-heating of breastmilk by HIV+ women to prevent mother-to-child transmission of HIV — Caroline Chantry (PI) & **Sera Young** (Co-I). 2010-2011 (\$63,700)

**Thrasher Research Fund ::** Early Career Award — **Sera Young** (PI). 2009-2010 (\$26,000)

**American Psychological Association ::** HIV Cybermentor Travel and Research Award — 2009-2011

**Population Center Research Award ::** UC Berkeley — **Sera Young** (co-PI). 2009

**Robert Wood Johnson Foundation ::** Health Disparities Small Grant — **Sera Young** (co-PI). 2008 (\$10,000)

**University of California Institute for Mexico and the United States (UC MEXUS) ::** Pilot grant — Lia Fernald (PI) & **Sera Young** (co-PI). 2008 (\$1,500)

**University of California, Berkeley ::** Professional Development Grant — 2008

**Division of Nutritional Sciences Small Grant ::** Cornell University — 2004, 2005, 2007

**Mario Einaudi International Research Travel Grant ::** Cornell University — 2004, 2005

**Sigma Xi Research Grant ::** Cornell University — 2004

## **AWARDS**

**Faculty and Administrator Honor Roll ::** Associated Student Government — 2019-2020

**Andrew Carnegie Fellow ::** Carnegie Corporation — 2019-2021

**Society for Applied Anthropology** :: Fellow — 2018-present

**Margaret Mead Award** :: American Anthropological Association and the Society for Applied Anthropology — 2013. In recognition of exemplary skills in broadening the impact of anthropology.

**Dissertation Award** :: Society for Medical Anthropology — 2009. In recognition of the outstanding dissertation in the field of medical anthropology.

**Allan Rosenfield Scholar & New Investigator in Global Health** :: Global Health Council — 2009. For outstanding research on reproductive and family health.

**Distinguished Poster :: International Congress of Nutrition — 2009.**  
For the poster “Flash-heating breastmilk is feasible in Dar es Salaam Tanzania”.

**Sugar Award** :: One Laptop Per Child — 2007. For the development of the best educational children’s software.

**Rudolf Virchow Award :: Honorable Mention : American Anthropological Association — 2003.** Presented by the Society for Medical Anthropology for advancing critical perspectives in medical anthropology.

**Christine Wilson Award :: American Anthropological Association — 2002.** Presented by the Council on Nutritional Anthropology.

**Student-Intern Teacher of the Year Honorable Mention :: State of Michigan — 1999.** For the demonstration of outstanding potential as an educator.

## PUBLICATIONS

PEER-REVIEWED ARTICLES (\*\*Graduate/medical student advisee, \*Undergraduate advisee, ^Post-doctoral advisee)

1. Venkataramanan, V.,^ Geere, J., Thomae, B.,\* Stoler, J., Hunter, P., **Young, S.L.**, HWISE-RCN. (2020). In pursuit of ‘safe’ water: the burden of personal injury from water fetching in 21 low-income and middle-income countries. *BMJ Global Health*, <https://gh.bmj.com/content/5/10/e003328>
2. **Young, S.L.**, Miller, J.D.,\*\* Frongillo, E.A., Boateng, G.,^ Jamaluddine, Z., Neilands, T., HWISE-RCN. (2020). Validity of a Four-Item Household Water Insecurity Experiences Scale for Assessing Water Issues Related to Health and Well-Being. *American Journal of Tropical Medicine and Hygiene*, <https://doi.org/10.4269/ajtmh.20-0417>
3. Samburu, B.,\*\* **Young, S.L.**, Wekesah, F., Wanjohi, M., Kimiywe, J., Muriuki, P.; Griffiths, P., McGarvey, S.T., Madise, N., Kimani-Murage, E. W. (2020). Effectiveness of the baby-friendly community initiative in promoting exclusive breastfeeding among HIV negative and positive mothers: a randomized controlled trial in Koibatek Sub-County, Baringo, Kenya. *International Breastfeeding Journal*, <https://doi.org/10.1186/s13006-020-00299-4>
4. Tuthill, E.,^ Miller, J.,\*\* Collins, S.\*\*; Widen, E.^; Onono, M., **Young, S.L.** (2020). HIV infection, hunger, breastfeeding self-efficacy, and depressive symptoms are associated with exclusive breastfeeding to six months among women in western Kenya: a longitudinal observational study. *International Breastfeeding Journal*, <https://doi.org/10.1186/s13006-019-0251-8>
5. Meehan, K., Jepson, W., Harris, L., .... **Young, S.L.** (2020). Exposing the myths of household water insecurity in the global north: A critical review. *WIREs Water*. <https://doi.org/10.1002/wat2.1486>
6. Rosinger, A., Brewis, A., Wutich, A., Jepson, W., Staddon, C., Stoler, J., **Young, S.L.**, & HWISE RCN. (2020). Water borrowing is consistently practiced globally and is associated with water-related system failures across diverse environments. *Global Environmental Change*. <https://doi.org/10.1016/j.gloenvcha.2020.102148>
7. Tuthill, E., Maltby, A., Conteh, J., Sheira, L., Miller, J.,\*\* Onono, M., Weiser, D., & **Young, S.L.** (2020). Persistent food insecurity, but not HIV, is associated with depressive symptoms among perinatal women in Kenya: a longitudinal perspective. *AIDS & Behavior*. <https://doi.org/10.1007/s10461-020-03047-1>
8. Venkataramanan, V.,^ Collins, S.,\*\* Clark, K.,\* Yeam, J.,\* Nowakowski, V.,\* & **Young, S.L.** (2020). Coping strategies for individual and household-level water insecurity: A systematic review. *WIREs Water*. doi: <https://doi.org/10.1002/wat2.1477>

9. Rosinger, A. & Young, S.L. (2020). In-Home Tap Water Consumption Trends Changed Among U.S. Children, but Not Adults, Between 2007 and 2016. *Water Resources Research*. doi: 10.1029/2020WR027657
10. Lane, C., Widen, E., Collins, S., & Young, S.L. (2020). HIV-exposed, uninfected infants in Uganda experience poorer growth and body composition trajectories than HIV-unexposed infants. *JAIDS*. doi: 10.1097/QAI.0000000000002428
11. Samburu, B., Young, S.L., Wekesa, F., Wanjohi, M., Kimiywe, J., Muriuki, P., Griffiths, P., McGarvey, S., Madise, N., & Kimani-Murage, E. (2020). Effectiveness of the baby-friendly community initiative in promoting exclusive breastfeeding among HIV negative and positive mothers: a randomized controlled trial in Koibatek Sub-County, Baringo, Kenya. *International Breastfeeding Journal*. doi: 10.1186/s13006-020-00299-4
12. Rosinger, A. & Young, S.L. (2020). The toll of household water insecurity on health and human biology: Current understandings and future directions. *WIREs Water*. doi: 10.1002/wat2.1468
13. Bethancourt, H., Swanson, Z., Nzunza, R., Huanca, T., Conde, E., Kenney, W. L., Young, S.L., Ndiema, E., Braun, D., Pontzer, H., & Rosinger, A. (2020). Hydration in Relation to Water Insecurity, Heat Index, and Lactation Status in Two Small-Scale Populations in Hot-Humid and Hot-Arid Environment. *American Journal of Human Biology*. doi: 10.1002/ajhb.23447
14. Boateng, G., Workman, C., Miller, J., Onono, M., Neilands, T., & Young, S.L. (2020). The syndemic effects of food insecurity, water insecurity, and HIV on depressive symptomatology among Kenyan women. *Social Science & Medicine*. doi: 10.1016/j.socscimed.2020.113043
15. Miller, J., Vonk, J., Staddon, C., & Young, S.L. (2020). Is household water insecurity a link between water governance and well-being? A multi-site analysis. *Journal of Water, Sanitation & Hygiene for Development*. doi: 10.2166/washdev.2020.165
16. Finkelstein, J.L., Herman, H.S., Plenty, A., Mehta, S., Natureeba, P., Clark, T.D., Kanya, M.R., Ruel, T., Charlebois, E.D., Cohan, D., Havlir, D., & Young, S.L. (2020). Anemia and Micronutrient Status during Pregnancy, and Their Associations with Obstetric and Infant Outcomes among HIV-Infected Ugandan Women Receiving Antiretroviral Therapy. *Current Developments in Nutrition*. doi: 10.1093/cdn/nzaa075
17. Tesfaye, Y., Maes, K., Abesha, R., Young, S.L., Snyder, J., Gebremariam, A., & Freeman, M. (2020). How do rural Ethiopians rate the severity of water insecurity scale items? Implications for water insecurity measurement and interventions. *Human Organization*. doi: 10.17730/1938-3525.79.2.95
18. Weis, J., Mays, A., Collins, S., & Young, S.L. (2020). "As long as we have the mine, we'll have water": Exploring water insecurity in Appalachia. *Annals of Anthropological Practice*. doi: 10.1111/napa.12134
19. Venkataramanan, V., Lopez, D., McCuskey, D., Keifus, D., McDonald, R., Miller, W., Packman, A., & Young, S.L. (2020). Knowledge, attitudes, intentions, and behavior related to green infrastructure for flood management: A systematic literature review. *Science of the Total Environment*. doi: 10.1016/j.scitotenv.2020.137606
20. Benzaken, C., Miller, J., Onono, M., & Young, S.L. (2020). Development of a cumulative metric of vaccination adherence behavior and its application among a cohort of 12-month-olds in western Kenya. *Vaccine*. doi: 10.1016/j.vaccine.2020.03.011 (preprint: 10.31235/osf.io/4s76n)
21. Thavarajah, W., Verosloff, M., Jung, J., Alam, K., Miller, J., Jewett, M., Young, S.L., & Lucks, J. (2020). A primer on emerging field-deployable synthetic biology tools for global water quality monitoring. *npj Clean Water*. doi: 10.1038/s41545-020-0064-8
22. Tuthill, E., Miller, J., Collins, S., Widen, E., Onono, M., & Young, S.L. (2020). HIV infection, hunger, breastfeeding self-efficacy, and depressive symptoms are associated with exclusive breastfeeding to 6 months among women in western Kenya: A longitudinal observational study. *International Breastfeeding Journal*. doi: 10.1186/s13006-019-0251-813006\_2019\_251
23. Schuster, R., Butler, M., Wutich, A., Miller, J., Young, S.L., & HWISE Research Coordination Network. (2020). "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*. doi: 10.1002/ajhb.23357 \*\*cover article

24. Brewis, A., Workman, C., Wutich, A., Jepson, W., **Young, S.L.**, & HWISE Research Coordination Network. (2020). Household water insecurity is a plausible driver of food insecurity: Evidence from 27 sites in low- and middle-income countries. *American Journal of Human Biology*. doi: 10.1002/ajhb.23309
25. Stoler, J., Pearson, A., Staddon, C., Wutich, A., Mack, E., Brewis, A., Rosinger, A., & HWISE Research Coordination Network [including **Young, S.L.**]. (2019). Cash water expenditures are associated with household water insecurity, food insecurity, and perceived stress in study sites across 20 low- and middle-income countries. *Science of the Total Environment*. doi: 10.1016/j.scitotenv.2019.135881
26. **Young, S.L.**, Godfred, B.O.,<sup>^</sup> Jamaluddine, Z, Miller, J.D.,\* Frongillo, E., Neilands, T., Collins, S.M.,\*\* Wutich, A., Jepson, W., Stoler, J., & HWISE Research Coordination Network. (2019). The Household Water InSecurity Experiences (HWISE) Scale: development and validation of a household water insecurity measure for low-income and middle-income countries. *BMJ Global Health*. doi: 10.1136/bmjgh-2019-001750
27. Venkataramanan, V.,<sup>^</sup> Packman, A., Peters, D.,\* Lopez, D.,\* McCuskey, D.,\* McDonald, R., Miller, W., & **Young, S.L.** (2019). A systematic review of the human health and social well-being outcomes of green infrastructure for stormwater and flood management. *Journal of Environmental Management*. doi: 10.1016/j.jenvman.2019.05.028
28. Murnane, P., Miller, J.,\* Tuthill, E., Collins, S.,\*\* Neilands, T., Onono, M., Cohen, C., Weiser, S., Laudenslager, M., & **Young, S.L.** (2019). Perinatal food insecurity and postpartum psychosocial stress are positively associated among Kenyan women of mixed HIV status. *AIDS and Behavior*. doi: 10.1007/s10461-019-02676-5
29. Miller, J.D.,\* Fitzgerald, K.G., Smith, A.L., & **Young, S.L.** (2019). Geophagy among a cohort of Kenyan women with mixed HIV status: A longitudinal analysis. *American Journal of Tropical Medicine and Hygiene*. doi: 10.4269/ajtmh.19-0149
30. Pebsworth, P.A.,<sup>^</sup> Hillier, S., Wendler, R., Glahn, R., Ta, C.A.K., Arnason, J.T., & **Young, S.L.** (2019). Geophagy among East African Chimpanzees: consumed soils provide protection from plant secondary compounds and bioavailable iron. *Environmental Geochemistry and Health*. doi: 10.1007/s10653-019-00366-8
31. Heimbürger, D.C., Hermann, M., McClung, J.P., McGuire, M.K., Rasmussen, K.M., Troy, L.M., & **Young S.L.** (2019). History and perspectives on the Dannon Institute Early-Career Nutrition Leadership Institute. *Nutrition Today*. doi: 10.1097/NT.0000000000000353
32. Miller, J.D.,\* **Young, S.L.**, Boateng, G.O.,<sup>^</sup> Oiyee, S., & Owino, S. (2019). Greater household food insecurity is associated with lower breast milk intake among infants in western Kenya. *Maternal & Child Nutrition*. doi: 10.1111/mcn.12862
33. Fiorella, K.J.,<sup>^</sup> Desai, P.,\* Miller, J.D.,<sup>8</sup> Okeyo, N.O., & **Young, S.L.** (2019). A review of transactional sex for natural resources: Under-researched, overstated, or unique to fishing economies? *Global Public Health*. doi: 10.1080/17441692.2019.1625941
34. Chung, E.O., Mattah, B., Hickey, M., Salmen, C.R., Milner, E.M., Bukusi, E.A., Brashares, J.S., **Young, S.L.**, Fernald, L.C.H., & Fiorella, K.J.<sup>^</sup> (2019). Characteristics of pica behavior among mothers around Lake Victoria, Kenya: A cross-sectional study. *Int. J. Environ. Res. Public Health*. doi: 10.3390/ijerph16142510
35. Santoso, M.V.,\*\* Bezner Kerr, R., Hodidinott, J., Garigipati, P.,\* Olmos, S.,\* & **Young, S.L.** (2019). Role of women's empowerment in child nutrition outcomes: A systematic review. *Advances in Nutrition*. doi: 10.1093/advances/nmz056
36. Boateng, G.,<sup>^</sup> Martin, S., Tuthill, E., Collins, S.M.\*\*, Dennis, C., Natamba, B.\*\*, **Young, S.L.** (2019). Adaptation and psychometric evaluation of the breastfeeding self-efficacy scale to assess exclusive breastfeeding. *BMC Pregnancy & Childbirth*. doi: 10.1186/s12884-019-2217-7
37. **Young, S.L.** & Miller, J.D.\* (2019). Medicine Beneath Your Feet: A Biocultural Examination of the Risks and Benefits of Geophagy. *Clay and Clay Minerals*. doi: 10.1007/s42860-018-0004-6
38. **Young, S.L.**, Collins, S.M.,\*\* Boateng, G.,<sup>^</sup> Neilands, T.B., Jamaluddine, Z., Miller, J.D.,\*, Brewis, A., Frongillo, E.A., Jepson, W., Melgar-Quiñonez, H., Schuster, R., Stoler, J.B., Wutich, A., & HWISE Research Coordination Network. (2019). Development and validation protocol for an instrument to measure household water insecurity

across cultures and ecologies: the Household Water InSecurity Experiences (HWISE) Scale. *BMJ Open*. doi: 10.1136/bmjopen-2018-023558

39. Brewis, A., Rosinger, A., Wutich, A., Adams, E., Cronk, L., Pearson, A., Workman, C., **Young, S.L.**, & HWISE Consortium. (2019). Water sharing, reciprocity, and need: A comparative study of interhousehold water transfers in sub-Saharan Africa. *Economic Anthropology*. doi: 10.1002/sea2.12143
40. Bezner Kerr, R., **Young, S.L.**, Young, C., Santoso, M.V.,\*\* Magalasi, M., Entz, M., Lupafya, E. Dakishoni, L., Morrone, V., Wolfe, D., Snapp, S. (2019). Farming for change: developing a participatory curriculum on agroecology, nutrition, climate change and social equity in Malawi and Tanzania. *Agriculture and Human Values* <http://bit.ly/farm4change>
41. Chung, Y., Bezner Kerr, R., & **Young, S.L.** (2019). Rethinking the value of unpaid care work: lessons from participatory visual research in central Tanzania. *Gender, Place & Culture*. doi: 10.1080/0966369X.2018.1556611
42. Stoler, J., Brewis, A., Harris, L., Wutich, A., Pearson, A., Rosinger, A., Schuster, R., & **Young, S.L.** (2018). Household water sharing: a missing link in international health. *International Health*. doi: 10.1093/inthealth/ihy094/5253751
43. Pebsworth, P., Huffman, M., Lambert, J., & **Young, S.L.** (2018). Geophagy among non-human primates: A systematic review of current knowledge and suggestions for future direction. *Yearbook of Physical Anthropology*. doi: 10.1002/ajpa.23724
44. Collins, S.,\*\* Mbullo, P.,\*\* Miller, J.,\* Boateng, G.,^ Wekesa, P., Onono, M., & **Young, S.L.** (2018). 'I know how stress it is to lack water!' Exploring the lived experiences of household water insecurity among pregnancy and postpartum women in western Kenya. *Global Public Health*. doi: 10.1080/17441692.2018.1521861
45. Widen, E., Tsai, I.,\* Collins, S.M.,\*\* Wekesa, P., China, J., Krumdieck, N., Miller, J.,\* Weiser, S., Onono, M., & **Young, S.L.** (2018). HIV and increased food insecurity are associated with adverse body composition changes among pregnant and lactating Kenyan women. *European Journal of Clinical Nutrition*. doi: 10.1038/s41430-018-0285-9
46. Wutich, A., Budds, J., Jepson, W., Harris, L., Adams, E., Brewis, A., Cronk, L., DeMyers, C., Maes, K., Marley, T., Miller, J.,\* Pearson, A., Rosinger, A., Schuster, R.,\*\* Stoler, J., Staddon, C., Wiessner, P., Workman, C., **Young, S.L.** (2018). Household water sharing: A review of water gifts, exchanges, and transfers across cultures. *Wiley Interdisciplinary Reviews – Water*. doi: 10.1002/wat2.1309
47. Schuster, R.,\*\* de Sousa, O, Reme, A., Vopelak, C., Pelletier, D. L., Johnson, L. M., Mbuya, M., Pinault, D., & **Young, S. L.** (2018). Performance-Based Financing Empowers Health Workers Delivering Prevention of Vertical Transmission of HIV Services and Decreases Desire to Leave in Mozambique. *International Journal of Health Policy and Management*. doi: 10.15171/ijhpm.2017.137
48. Rosinger, A., **Young, S. L.**, Collins, S. M.,\*\* Haider, S. R., Mishra, P., Nagai, H. T., Petro, M., & Downs, J. A. (2018). Schistosomiasis and hydration status: *Schistosoma haematobium*, but not *Schistosoma mansoni* increases urine specific gravity among rural Tanzanian women. *American Journal of Physical Anthropology*. doi: 10.1002/ajpa.23479
49. Fox, E.,\*\* Pelto, H., Bar, H., Rasmussen, K. M., **Young, S. L.**, Debrosse, M. G., Rouzier, V. A., Pape, J. W., & Pelletier, D. L. (2018). Capturing changes in HIV-infected, breastfeeding mothers' cognitive processes from before delivery to five months postpartum: An application of the pile sorting technique in Haiti. *Current Developments in Nutrition*. doi: 10.1093/cdn/nzy017
50. Miller, J. D.,\* Collins, S. M.,\*\* Omotayo, M., Martin, S. L., Dickin, K. L., & **Young, S. L.** (2018). Geophagic earths consumed by women in western Kenya contain dangerous levels of lead, arsenic, and iron. *American Journal of Human Biology*. doi: 10.1002/ajhb.23130
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137. Weiser, S., Palar, K., Hatcher, A., **Young, S.**, Frongillo, E., Laraia, B. (2015). Food Insecurity and Health: A Conceptual Framework. In *Food Insecurity and Public Health*. L. Ivers (Ed.). CRC Press. pp. 23-50.
138. **Young, S.L.** (2015). Pica. In *The Oxford Companion to Sugar and Sweets*, D. Goldstein (Ed.). Oxford University Press. pp. 531-532.
139. **Young, S. L.** and G. H. Pelto. (2015). Evaluative Ethnography for Maternal and Child Nutrition Interventions. In *Ethnographic Research in Maternal and Child Health*, F. Dykes and R. Flacking (Eds.). pp. 157-178.
140. **Young, S.L.** (2015). Pica: A biocultural approach to curious and compelling cravings. In *Understanding and Applying Medical Anthropology*, P. Brown & S. Closser (Eds.). pp. 58-72.
141. **Young, S. L.** and G. H. Pelto. (2011). Core Concepts in Nutritional Anthropology. In *Nutritional Health: Strategies for Disease Prevention*. T. Wilson and N. Temple (Eds.). Humana Press. pp. 523-537.
142. **Young S.L.** (2007). Evidence for the Consumption of the Inedible: Who, what, when, where, and why. In *Consuming the Inedible: Cross-disciplinary approaches*. J. MacClancy, J. Henry, and H. MacBeth (Eds.). Berghahn Press. pp. 17-30.
143. **Young, S. L.** (2007). A Vile Habit? The Potential Biological Consequences of Geophagia, with special attention to iron. In *Consuming the Inedible: Cross-disciplinary approaches*. J. MacClancy, J. Henry, and H. MacBeth (Eds.). Berghahn Press. pp. 67-79.
144. **Young, S. L.** and G. H. Pelto. (2005). Core Concepts in Nutritional Anthropology. In *Nutritional Health: Strategies for Disease Prevention*. T Wilson and N. Temple (Eds.). Humana Press. pp. 425-437.

#### DISSERTATION & THESES

145. Young, S.L. (2008). A biocultural study of the relationship between pica and anemia. PhD Dissertation in Nutritional Sciences. Cornell University.
146. Young, S. L. (2002). "Listen, Without Blood There is No Life": An ethnography of anemia during pregnancy in Pemba, Zanzibar. MA Thesis in Medical Anthropology. University of Amsterdam.
147. Young S. L. (1999). Religious Conversion by Dogon Women: A strategy for reproductive success? BA Honors Thesis. University of Michigan.

#### POLICY BRIEF

Slymaker, T., Johnston, R., **Young, S.L.**, Miller, J.,\* & Staddon, C. (2020). Detailed Review of a Recent Publication: An innovative measure of the experience of water insecurity can help identify vulnerable households and evaluate interventions. *UNC Water Institute - WaSH Policy Research Digest*. [https://waterinstitute.unc.edu/files/2020/07/Issue\\_15\\_final.pdf](https://waterinstitute.unc.edu/files/2020/07/Issue_15_final.pdf)

#### REPORT

Ringler, C., Dias, P., Chase, C., Choufani, J., Lundqvist, J., Barron, J., Dickens, C., Mateo-Sagasta, J., McCartney, M., **Young, S.L.**, & de Souza, M. (2020). Water and nutrition: Harmonizing actions for the United Nations Decade of Action on Nutrition and the United Nations Water Action Decade. <https://www.unscn.org/uploads/web/news/document/Water-Paper-EN-WEB-2mar.pdf>

#### CLINICAL GUIDELINE

**Young, S.L.** and Cox, J. (2015) UptoDate entry on Pica. UptoDate is a subscription medical reference used by 1,100,000 million clinicians in 180 countries and almost 90% of academic medical centers in the United States. \*Recognized as "Outstanding Author" for 2016.

#### OPEDs

Miller, J.\* & **Young, S.L.** (2020). 'Wash your hands and stay home' is impossible for millions. *The Hill*. <https://thehill.com/opinion/civil-rights/494854-wash-your-hands-and-stay-home-is-impossible-for-millions>

**Young, S.L.** (2019). The risks of water insecurity. *Scientific American*. <https://blogs.scientificamerican.com/observations/the-risks-of-water-insecurity/>

**Young, S.L.** (2019). How often do you worry about water? *U.S. News & World Report*. <https://www.usnews.com/news/best-countries/articles/2019-03-20/commentary-a-better-way-to-measure-household-water-insecurity>

**Young, S.L.** (2018). US water security falls short. *The Hill*. <https://thehill.com/opinion/energy-environment/417229-us-water-security-falls-short>

#### CONFERENCE POSTERS, PRESENTATIONS, & PANELS

(\*\*Graduate/medical student advisee, \*Undergraduate advisee, ^Post-doctoral advisee)

148. Bakker, K., Edwardes, A., Mondardini, R., **Young, S.L.**, et alia. How big data, citizen science data, and survey data can be effective in monitoring progress and decision-making around SDG 6 (ensuring availability and sustainable management of water and sanitation for all). United Nations World Data Forum. "Bern, Switzerland." October 2020. (Oral session)

149. **Young, S. L.** et alia. Metropolitan & Household Water Insecurity: Novel Tools for Achieving SDG 6. Stockholm World Water Week. "Stockholm, Sweden." September 2020.(Oral session) <https://www.ipr.northwestern.edu/our-work/research-tools-apps/water-insecurity/index.html>
150. Miller, J.M. & **Young, S.L.** The Household Water Insecurity Experiences (HWISE) Scale: Implications for Nutrition & Agriculture. Water Scarcity in Agriculture at the Food and Agriculture Organization. "Rome, Italy." September 2020. (Oral presentation)
151. **Young, S.L.**, Rosinger, A., Jamaluddine, Z., & Ringler, C. Household Water Insecurity and its Importance for Ensuring Food, Nutrition and Well-Being. American Society for Nutrition. June 2020. (Plenary session)
152. **Young, S.L.** & Staddon, C. The Household Water Insecurity Experiences Scale: a simple questionnaire for generating high-resolution data on water security. Cairo Water Week. Cairo, Egypt. October 2019. (Oral presentation)
153. **Young, S.L.**, Whinner, J., Miller, J.,\* Staddon, C., & HWISE Research Coordination Network. Development of a cross-culturally validated scale to measure household water insecurity experiences and implementation in urban, cholera-prone areas of Lusaka, Zambia. Water and Health Conference. Chapel Hill, NC. October 2019. (Oral presentation)
154. **Young, S.L.** Development and testing of a household water insecurity measure that is equivalent across countries. Agriculture, Nutrition & Health Academy Annual Meeting. Hyderabad, India. June 2019. (Oral presentation)
155. Balka, S.,\* Santoso, M.V.,\*\* Bezner Kerr, R., & **Young, S.L.** A Participatory Investigation of Dietary Diversity Amplifies Knowledge Coproduction and Participant Involvement in an Agroecological Intervention in Rural Tanzania. American Society for Nutrition. Baltimore, MD. June 2019. (Oral presentation)
156. Santoso, M.V.,\*\* Bezner Kerr, R., Kassim, N., Martin, H., Mtinda, E., Mtei, K., & **Young, S.L.** Production Diversity, Men's Help with Household Tasks, & Lower Women's Depression Mediate Impact of an Agriculture Intervention on Child's Dietary Diversity in Tanzania. American Society for Nutrition. Baltimore, MD. June 2019. (Oral presentation)
157. Wang, M.,\* Miller, J.,\* Collins, S.,\*\* Santoso, M.V.,\*\* Wekesa, P., Onono, M., Gandhi, M., & **Young, S.L.** Increased Social Support Mitigates the Negative Impact of Food Insecurity on Antiretroviral Adherence Among Postpartum Women in Western Kenya. American Society for Nutrition. Baltimore, MD. June 2019. (Poster presentation)
158. Cramer, J., Jallow, M., Miller, J.D.,\* & **Young, S.L.** Geophagy in The Gambia: An exploration of the motivators for eating earth among men and women. Human Biology Association. Cleveland, OH. March 2019. (Poster presentation)
159. Benzaken, C.,\* Miller, J.D.,\* Smith, A., & **Young, S.L.** Higher maternal depression is associated with lower vaccination adherence among infants in western Kenya. Human Biology Association. Cleveland, OH. March 2019. (Poster presentation)
160. **Young, S.L.** & HWISE RCN. Development & Uses of a Transdisciplinary Scale To Measure Household Water Insecurity. AAAS. Washington, DC. February 2019. (Oral presentation)
161. Murnane, P., Miller, J.,\* Collins, S.,\*\* Neilands, T., Cohen, C., Laudenslager, M., Weiser, S., Onono, M., & **Young, S.L.** Food insecurity is associated with postpartum stress in Kenyan women of mixed HIV status. AIDS Conference. Amsterdam, Netherlands. July 2018. (Poster presentation.)
162. Harris, J.,\* Santoso, M.,\*\* Bezner Kerr, R., Kassim, M., Mollay, C., Martin, H., Mtei, K., Kalonga, J., Mtinda, E., & **Young, S.L.** A Women's Hours of Household and Non-farming Work, But Not Agriculture Work, is Positively Associated with Child's Dietary Diversity Scores in Rural Tanzania. American Society of Nutrition Annual Meeting. Boston, MA. June 2018. \*\*Finalist for the American Society for Nutrition's Emerging Leaders in Global Nutrition Poster Competition (Poster presentation)
163. Lin, A.,\* Santoso, M.,\*\* Collins, S.,\*\* Bezner Kerr, R., Kassim, M., Mollay, C., Martin, H., Mtei, K., Kalonga, J., Mtinda, E., & **Young, S.L.** He said, she said: intra-household disparities in water insecurity experiences between

- men and women in Tanzania. American Society of Nutrition Annual Meeting. Boston, MA. June 2018. (Poster presentation)
164. Smith, S.,\* Santoso, M.,\*\* Bezner Kerr, R., Kassim, M., Mollay, C., Martin, H., Mtei, K., Kalonga, J., Mtinda, E., & **Young, S.L.** Timely participatory dissemination improves study implementation and data interpretation: lessons from an agriculture and nutrition participatory study in Tanzania. American Society of Nutrition Annual Meeting. Boston, MA. June 2018. (Poster presentation)
165. Olmos, S.,\* Santoso, M.,\*\* Garigipati, P.,\* Benzaken, C.,\* Beck, A.,\* Umuhire, E.,\* & **Young, S.L.** Systematic literature review of the relationship between women's empowerment and child nutrition indicates women's empowerment is important but poorly defined and measured. American Society of Nutrition Annual Meeting. Boston, MA. June 2018. (Poster presentation)
166. Hassan, B.,\* Santoso, M.,\*\* Bezner Kerr, R., Kassim, M., Mollay, C., Martin, H., Mtei, K., Kalonga, J., Mtinda, E., & **Young, S.L.** Male attendance at antenatal care clinic visits is not associated with involvement in childcare of child dietary diversity in Singida, Tanzania. American Society of Nutrition Annual Meeting. Boston, MA. June 2018. (Poster presentation)
167. Clark, K.,\* Santoso, M.,\*\* Miller, J.,\* Collins, S.,\* Onono, M., & **Young S.L.** Food insecurity is positively associated with infant morbidity symptoms at three months of age in Nyanza, Kenya. American Society of Nutrition Annual Meeting. Boston, MA. June 2018. (Poster presentation)
168. Santoso, M.,\*\* Bezner Kerr, R., Kassim, M., Mollay, C., Martin, H., Mtei, K., Kalonga, J., Mtinda, E., & **Young, S.L.** Food insecurity exacerbates depression among women more than among men in rural Tanzania. American Society of Nutrition Annual Meeting. Boston, MA. June 2018. \*\*Finalist for the American Society for Nutrition's Emerging Leaders in Global Nutrition Poster Competition at ASN (Oral presentation)
169. Santoso, M.,\*\* Bezner Kerr, R., Kassim, M., Mollay, C., Martin, H., Mtei, K., Kalonga, J., Mtinda, E., & **Young, S.L.** A Participatory Agroecological Intervention Amongst Rural Tanzanian Farmers Increases Crop Diversity, Food Security, and Maternal Dietary Diversity: A Midline Evaluation. Agriculture for Nutrition and Health Academy Week. Accra, Ghana. June 2018. (Oral presentation)
170. **Young, S.L.** & HWISE Research Coordination Network. Development and testing of a household water insecurity measure that is equivalent across countries. Agriculture for Nutrition and Health Academy Week. Accra, Ghana. June 2018. (Oral presentation)
171. **Young, S.L.** & Miller, J.\* Medicine beneath your feet: A biocultural examination of the risks and benefits of geophagy. Clay Minerals Society. Urbana-Champaign, IL. June 2018. (Oral presentation)
172. **Young, S.L.** & Miller, J.\* The Household Water Insecurity Experiences (HWISE) Scale: A Cross-Culturally Valid Tool for the Measurement of Household-Level Water Insecurity. Agricultural & Applied Economics Association Annual Meeting. Washington, D.C. June 2018. (Oral presentation)
173. **Young, S.L.** "You are alert all the time just in case you hear rumors that there is water somewhere": Lived experiences of water insecurity during pregnancy and lactation in western Kenya. American Anthropological Association. Washington, D.C. November 2017. (Oral presentation.)
174. Blacker, L.\* , Santoso, M.V.\*\* , Harnett, L.\* , Kassim, N., Mollay, C., Martin, H., Mtinda, E., Mtei, K., Kalonga, J., Bezner Kerr, R., **Young, S.L.** Household food insecurity and gender inequity are associated with high prevalence of maternal depression amongst female farmers in rural Tanzania. Experimental Biology. Chicago, IL. April 2017. \*\*Received Second Place in the American Society for Nutrition's Emerging Leaders in Nutrition Poster Competition (Poster presentation.)
175. Collins, S.M.\*\* , Miller, J.D.\* , Mbullo, P., Boateng, G.O.^ , Wekesa, P., Onono, M., **Young, S.L.** "You take the cash meant for beans and you buy water" : The multi-faceted consequences of water insecurity for pregnant and postpartum women of mixed HIV status. Experimental Biology. Chicago, IL. April 2017. (Poster presentation.)
176. Boateng, G.O.^ , Onono, M., Collins, S.M.\*\* , Baughan, E.\* , Wekesa, P., Familiar, I., Widen, E.M., **Young, S.L.** Early childhood learning activities buffer adverse effects of HIV exposure on infant cognitive development: a



- longitudinal study. Experimental Biology. Chicago, IL. April 2017. (Poster presentation.) \*\*Received First Place in the American Society for Nutrition's Emerging Leaders in Nutrition Poster Competition
177. Boateng, G.O.^, Collins, S.M.\*\*, Mbullo, P., Wekesa, P., Krumdieck, N.R., Johnson, M., Onono, M., Neilands, T.B., **Young, S.L.** A novel tool for the assessment of household water insecurity: scale development and validation in western Kenya. Experimental Biology. Chicago, IL. April 2017. (Poster presentation.)
178. Collins, S.M.\*\*, Widen, E.M.^, Santoso, M.V.\*\*, Martin, S.L., Hoke, M.K., Tuthill, E.L.^, Wekesa, P., Boateng, G.O.^, Onono, M., **Young, S.L.** Biological and psychosocial determinants of sustained exclusive breastfeeding among women of mixed HIV status in Western Kenya. Human Biology Association. New Orleans, LA. April, 2017. (Poster presentation.)
179. Miller, J.\* , Boateng, G.^, Collins, S.\*\*, Wekesa, P., Onono, M. **Young, S.L.** Perinatal geophagy is associated with HIV and anemia among women in western Kenya. Human Biology Association. New Orleans, LA. April 2017. (Poster presentation.) \*\*Won Hilde Spielvogel Award for Outstanding Presentation by an Undergraduate Student
180. Boateng, G.O.^, Onono, M., Baughan, E.\* , Collins, S.M. \*\*, **Young, S.L.** Food insecurity and HIV exposure are deleterious to infant cognitive development. Human Biology Association. New Orleans, LA. April 2017. (Oral presentation.)
181. Pebsworth, PA. \*\*, **Young, SL.**, Huffman, MA. Can geophagy alter the feeding ecology of non-human primates?: A systematic literature review. The International Primatological Society and the American Society of Primatologists. Chicago, IL. August 2016. (Oral presentation.)
182. Familiar, I., Collins, S. \*\*, Sikorskii, A., Ruisenor, H., Achidri, D., Achola, H., Onen, D., Boivin, M., **Young, SL.** Predictors of neurocognitive outcomes among a cohort of 12-month old infants from Uganda of mixed HIV exposure. The International AIDS Conference. Durban, South Africa. July 2016. (Poster presentation.)
183. Widen, E.\*\* , Collins, S.\*\* , Wekesa, P., Krumdieck, N.\*\* , Onono, M., **Young, SL.** Newly Diagnosed HIV is Associated with Lower Rates of Gestational Weight Gain and Loss of Mid-Upper Arm Circumference among Pregnant Kenyan Women. Experimental Biology. San Diego, CA. April 2016. (Oral presentation.)
184. Tsai, I.\* , Krumdieck, N.\*\* , Collins, S.\*\* , Widen, EM.\*\* , Wekesa, P., Onono, M., **Young, SL.** Food Insecurity is Associated with Depression and Stress Among a Cohort of Pregnant Kenyan Women of Mixed HIV Status. Experimental Biology. San Diego, CA. April 2016. (Poster presentation.) \*\*Received Second Place in the American Society for Nutrition's Emerging Leaders in Nutrition Poster Competition
185. Miller, JD.\* , Collins, S.\*\* , Krumdieck, NR.\*\* , Wekesa, P., Onono, M., **Young, SL.** Pica is Associated with Lower Hemoglobin Concentration in a Cohort of Pregnant Kenyan Women of Mixed HIV Status. Experimental Biology. San Diego, CA. April 2016. (Poster presentation.)
186. Hong, JJ.\* , Martey, E.\* , Dumas, SE.\*\* , **Young, SL.**, Travis, AJ. Physical, Economic, and Social Limitations to Egg Consumption in Luangwa Valley, Zambia. Experimental Biology. San Diego, CA. April 2016. (Poster presentation.)
187. Maranga, A.\* , Dumas, SE.\*\* , Mbullo, PE., Wekesa, P., Collins, S.\*\* , Onono, M., **Young, SL.** Perceived Benefits of Livestock Ownership among Female Smallholder Farmers of Mixed HIV Status in Nyanza Province, Kenya. Experimental Biology. San Diego, CA. April 2016. (Oral and poster presentations.) \*\*Received First Place in the American Society for Nutrition's Emerging Leaders in Nutrition Poster Competition
188. Martin, S., Collins, S.\*\* , Natamba, BK.\*\* , Achidri, D., Widen, EM.\*\* , **Young, SL.** Perceived breastmilk insufficiency and HIV are key predictors of exclusive breastfeeding at 1 and 3 months among mothers in northern Uganda. Experimental Biology. San Diego, CA. April 2016. (Oral and poster presentations.)
189. Krumdieck, N.\*\* , Collins, S.\*\* , Wekesa, P., Onono, M., **Young, SL.** Just how much household water insecurity do pregnant Kenyan women of mixed HIV status experience?: The need for a validated scale. Water and Health Conference: Where Science Meets Policy, UNC Chapel Hill. October 2015. (Poster presentation.)

190. Williams, A.,\*\* Chantry, C., **Young, S.L.**, Null, C., Stewart, C. Breastmilk Vitamin B12 Concentration are inadequate, but are not associated with reported recent animal source food or vitamin B12 intake among lactating women in rural Kenya. Academy of Breastfeeding Medicine, Los Angeles CA. October 2015. (Oral presentation.)
191. **Young, SL**, Koss, C., Natureeba, P., Plenty, A., Charlebois, E., Nyafwono, D., Clark, T., Cohan, D., Kanya, M., Havlir, D. Food insecurity is associated with lack of sustained viral suppression among HIV-Infected pregnant and breastfeeding Ugandan women." AIDS Impact. Amsterdam, the Netherlands. July 2015. (Oral presentation.)
192. Collins S,\*\* Natamba BK,\*\* Arbach A,\*\* Widen EM,\*\* Desai P,\* Khan H,\* Griffiths JK, **Young SL**. Alcohol Use Among Pregnant Ugandan Women of Mixed HIV Status is Associated with Social Environment and Food Insecurity. Experimental Biology. Boston, MA. March 2015. (Poster presentation.)
193. Dumas SE,\*\* Oyier B, Otticha S, Arbach A,\*\* Zheng A,\* Desai P,\* Khan H,\* Onono M, **Young SL**. Perceived Causes and Consequences of Food Insecurity During Pregnancy and Lactation among Kenyan Women of Mixed HIV Status. Experimental Biology. Boston, MA. March 2015. (Poster presentation.)
194. Natamba BK,\*\* Mehta S, Mou S,\* Ghosh S, Stoltzfus RJ, Griffiths JK, **Young SL**. Social Support Modifies Bidirectional Linkages Between Food Insecurity and Prenatal Depressive Symptoms while Domestic Violence Alters the Unidirectional Impact of Food Insecurity on Prenatal Depressive Symptoms. Experimental Biology. Boston, MA. March 2015. (Oral presentation.)
195. Roy A,\*\* Fuentes-Afflick E, Fernald L, **Young SL**. Pica is prevalent and strongly associated with iron deficiency, but not anemia, among Mexican-born pregnant women living in the United States. Experimental Biology. Boston, MA. March 2015. (Poster presentation.)
196. Santoso MV,\*\* Larkin H,\* Chung YB, Ota V, Bezner Kerr RN, **Young SL**. Sub-Optimal Infant and Young Child Feeding (IYCF) Practices in Singida, Tanzania are Associated with Food Insecurity. Experimental Biology. Boston, MA. March 2015. (Poster presentation.)
197. Schuster RC,\*\* de Sousa O, Reme A, Pinault D, **Young SL**. Evaluative ethnography is useful for understanding the impact pathways of performance-based incentives on health worker motivation. Experimental Biology. Boston, MA. March 2015. (Poster presentation.)
198. Widen EM,\*\* Natamba BK,\*\* Collins S,\*\* Khan H,\* Sirotin N, Ghosh S, Griffiths JK, **Young SL**. Maternal Food Insecurity is Associated with Loss of Fat, but not Lean Mass during Lactation among Ugandans of Mixed-HIV Status. Experimental Biology, Boston, MA. March 2015. (Oral presentation.)
199. Williams, A.,\*\* Chantry, C., **Young, S.L.**, Null, C., Stewart, C. Breastmilk Vitamin B12 Concentration is Low among Women in Western Kenya and is Not Associated with Animal Source Food Intake or Food Insecurity. Experimental Biology, Boston, MA. March 2015. (Poster presentation.)
200. **Young, S.L.**, Dumas, S.,\*\* Oyier, B., Otticha, S., Arbach, A.\*, Zheng, A.\*, Desai, P.,\* Onono, M. Food insecurity during pregnancy and lactation: Kenyan women's experiences of vulnerability and strategies for resilience. Society for Applied Anthropology, Pittsburgh, PA, March 2015. (Oral presentation.)
201. Schuster RC,\*\* de Sousa O., Vopelak C.,\*\* McMahon D,\* Pinault D., **Young SL**. The women have trust in me, and I try to live up to this trust: Health worker motivation and workplace characteristics among facility- and community-based health workers in rural Mozambique. American Public Health Association Annual Meeting, New Orleans, LA, November 2014. (Oral presentation.)
202. Schuster R.C.,\*\* de Sousa O., Vopelak C.,\*\* McMahon D.,\* Pinault D, **Young SL**. Motivation and workplace characteristics among facility- and community-based health workers in rural Mozambique to inform a performance-based incentive intervention. Global Symposium on Health Systems Research, Cape Town, South Africa, September 2014. (Poster presentation.)
203. McDermid, J., Spraggon, V., Oyier, B., Otticha, S., Onono, M., **Young, S.L.** Appetite sensation scores and dietary intake of pregnant and lactating women in western Kenya. Experimental Biology, San Diego, CA, April 2014. (Poster presentation.)
204. Natamba, B.,\*\* Oyok, T., Achan, J., Mou, S.,\* Ghosh, S., Sirotin, N., Stoltzfus, R.J., Griffiths, J., **Young, S.L.** Maternal food insecurity, anemia, and social support are independently associated with prenatal depression

- among HIV-positive and –negative women attending antenatal services in northern Uganda. *Experimental Biology*, San Diego, CA, April 2014. (Poster presentation.)
205. Finkelstein, J., Plenty, A., Mehta, S., Natureeba, P., Clark, T., Kanya, M., Charlebois, E., Cohan, D., Havlir, D., **Young, S.L.** Anemia, vitamin B12, and folate statuses during pregnancy, and their association with obstetric outcomes among HIV-infected Ugandan women receiving ART. *Experimental Biology*, San Diego, CA, April 2014. (Poster presentation.)
206. Dickin, K., Seim, G.,\* **Young, S.L.**, Wawire, S., Martin, L. Challenges and Facilitators for Implementing Prenatal Calcium Supplementation to Prevent Preeclampsia: Formative Research with Health Care Providers and Women in Kenya. *Experimental Biology*, San Diego, CA, April 2014. (Oral presentation.)
207. Tuthill, E.,\*\* **Young, S.L.** Appropriate Methodologies for Mapping the Biocultural Determinants of Infant Feeding Practices in the Context of HIV in Limited-Resource Settings. *American Anthropological Association*, Chicago, IL, Nov 2013. (Oral presentation.)
208. Tuthill, E.,\*\* McGrath, J., **Young, S.L.** Commonalities and differences in infant feeding attitudes and practices in the context of HIV in Sub-Saharan Africa: a Metasynthesis. *AIDS Impact*, Barcelona, Spain, October 2013. (Oral presentation.)
209. Jones, A.D., Ngure, F.M., Pelto, G., **Young, S.L.** What are we assessing when we measure food security?: A compendium and review of current metrics. *First International Conference on Global Food Security*. Noordwijkerhout, the Netherlands, September 2013. (Oral presentation.)
210. Powell, B., Bezner-Kerr, R., **Young, S.**, Johns, T. The importance of biodiversity for dietary diversity and nutrition: perspectives of small-scale farmers in rural Tanzania. *Agriculture, Food, and Human Values Society*. East Lansing, MI, June 2013. (Oral presentation.)
211. Lumish, R.,\* **Young, S.L.**, Lee, S., Cooper, E., Pressman, E., O'Brien, K.O. Pica behavior is prevalent and associated with low iron status in pregnant adolescents. *Experimental Biology*, Boston, MA, April 2013. (Poster presentation.)
212. Nagata, J.M., Fiorella, K.J., **Young, S.L.**, Weiser, S.D., Bukusi, E.A., Cohen, C.R. Social determinants of BMI and food insecurity among adults living with HIV / AIDS in Nyanza Province, Kenya. *University of California Global Health Day*, University of California, Riverside, February 2013. (Poster presentation.)
213. Williams, A.,\*\* Chantry, C., Geubbels, E., Ramaiya, A.,\* Shemdoe, A., **Young, S.** Food insecurity is negatively associated with exclusive breastfeeding in Tanzania: a cross-sectional study among HIV-positive women. *International AIDS Conference*, Washington, D.C. July 2012. (Poster presentation.)
214. **Young, S.L.**, Natamba, B.K.,\*\* Luwedde, F.A., Plenty, A.H.J., Mwesigwa, J., Natureeba, P., Osterbauer, B., Achan, J., Clark, T.D., Ades, V. Nzarubara, B.K., Ruel, T.D. Kanya, M., Charlebois, E.D., Havlir, D.V., Cohan, D. Severe household food insecurity is highly prevalent and associated with suboptimal breastfeeding practices among HIV-infected women in rural Uganda. *International AIDS Conference*, Washington, D.C. July 2012. (Oral presentation.)
215. Seim, G., Ahn, C., Bodis, M., Tako, E., Miller, D., Glahn, R., **Young, S.** The concentration of iron in Zanzibari geophagic earth is high but its in vitro bioavailability is low and it inhibits the bioavailability of dietary iron in an in vitro digestion/Caco-2 Cell model. *16th International Symposium on Iron Nutrition and Interactions in Plants*, Amherst, MA June, 2012. (Poster presentation.)
216. Natamba, B.,\*\* Robine, M.,\* Luwedde, F., Mwesigwa, J., Natureeba, P., Osterbauer, B., Ades, V., Clark, T., Charlebois, E., Plenty, A., Havlir, D., Cohan, D., Achan, J., **Young, S.** Breastfeeding practices and beliefs among HIV+ pregnant and lactating women on antiretroviral therapy in rural Uganda indicate obstacles to following national guidelines. *Experimental Biology*, San Diego, CA April 2012. (Poster presentation.)
217. Seim, G.,\* Ahn, C.,\* Bodis, M., Tako, E., Miller, D., Glahn, R., **Young, S.** The concentration of iron in Zanzibari geophagic earth is high but its in vitro bioavailability is low and it inhibits the bioavailability of dietary iron in an in vitro digestion/Caco-2 Cell model. *Experimental Biology*, San Diego, CA April 2012. (Poster presentation.)

218. Phillips, E.L., Pelletier, D., Gervais, S., Stoltzfus, R., **Young, S.**, Michaud, L. Using Program Impact Pathways to Improve Anemia Reduction Programs. Experimental Biology, San Diego, CA April 2012. (Oral presentation.)
219. Phillips, E.L., Pelletier, D., Gervais, S., Stoltzfus, R., **Young, S.**, Michaud, L. The Use of Mixed Methods Evaluation for Effective Program Scale up. Experimental Biology, San Diego, CA April 2012. (Poster presentation.)
220. Cohan, D.L., **Young, S.L.**, Murray, K., Mwesigwa, J, Achan, J, Ades, V, Charlebois, ED, Ruel, T, Kanya, MR, Havlir, DV. Maternal Nutritional Status Predicts Adverse Birth Outcomes among HIV-infected Rural Ugandan Women Receiving Combination Antiretroviral Therapy. Abstract presented at CROI March, 2012. (Evaluated on Faculty of 1000: <http://f1000.com/14267262#eval15779446>) (Poster presentation.)
221. Achan J., Ikezeki G., Kakuru A., Murray K., **Young S.**, Havlir D., Kanya M., Charlebois E., Ruel T. HIV-infected Ugandan children suffer high rates of malnutrition and minimal recovery following the initiation of antiretroviral therapy. International AIDS Society, Rome, Italy. July, 2011. (Oral presentation.)
222. Chantry C.J., **Young S.**, Ngonyani M., Israel-Ballard K., Peerson, J., Nyambo, M., Rennie, W., Dewey, K.G. Feasibility of Flash-heating breastmilk to reduce maternal to child transmission of HIV. American Public Health Association. Denver, CO. November, 2010. (Poster presentation.)
223. **Young, S.L.**, Chantry, C., Ngonyani, M., Israel-Ballard, K., Ash, D., Nyambo, M. Flash-heating breastmilk is feasible in Dar es Salaam Tanzania. International Congress of Nutrition. Bangkok, Thailand. October, 2009. (Poster presentation.) \*\* Selected as Distinguished Poster.
224. Nyambo, M., Ash, D., Ngonyani, M., **Young, S.L.**, Israel-Ballard, K., Chantry, C. Feasibility of Reducing MTCT-HIV by Flash-heating breast milk. Medical Women's International Association. Dar es Salaam, Tanzania. August, 2009. (Poster presentation.)
225. **Young, S.**, Israel-Ballard, K., Leshabari, S., Maternowska, C., Turuka, E., Mallya, D., Maisho, C., Ash, D., Nyambo, M., Chantry, C. Flash-heating Breastmilk To Reduce MTCT-HIV: Successes And Challenges. Global Health Council. Washington DC, May 2009. \*\* Selected as part of the New Investigator in Global Health Program (Poster presentation.)
226. Chantry C.J., **Young S.**, Ngonyani M., Israel-Ballard K., Ash D., Nyambo M., 2009. Feasibility of Flash-heating breastmilk to reduce maternal to child transmission of HIV. Pediatric Academic Societies. Baltimore, MD May 2009. (Poster presentation.)
227. **Young, S.**, Steinmetz, A.,\* Abrams, E.T. Are food aversions protective adaptations to pregnancy? American Anthropological Association. Philadelphia, PA. December 2009. (Co-chair of panel "Cravings and Aversions" with Crystal Patil). (Oral presentation.)
228. **Young, S.L.**, Chantry, C., Ngonyani, M., Israel-Ballard, K., Ash, D., Nyambo, M. Flash-heating breastmilk is feasible in Dar es Salaam Tanzania. Experimental Biology. New Orleans, Louisiana, April 2009. (Poster presentation.)
229. **Young, S.L.**, Ali S. M., Wilson, M.J., Hillier, S., Rasmussen, K.M., Stoltzfus, R.J. Pica is associated with pregnancy, anemia and gastrointestinal distress among Zanzibari women. Bloemfontein, South Africa, October 2008. (Oral presentation.)
230. Wilson, M. J., Hillier, S., **Young, S.L.** Clay Mineralogy of Geophagic Materials from Tanzania and Other Countries. 4th Mid-European Clay Conference, Zakopane, Poland, September 2008. (Oral presentation.)
231. **Young, S.L.**, Hernandez Cordero, S., Branco Garcia, I., Bonvecchio Arenas, A., & Neufeld, L. M. Acceptability of three nutritional supplements among pregnancy and lactating women in Mexico. Experimental Biology, San Diego, CA, April 2008. (Poster presentation.)
232. **Young, S. L.**, Goodman, D., Farag, T. H., Ali, S. M., Khatib, M. R., Khalfan, S. S. Tielsch, J.M., Stoltzfus, R.J. Geophagia is not associated with Trichuris or hookworm transmission in Zanzibar, Tanzania. Experimental Biology, Washington DC, April 2007. (Poster presentation.)

233. **Young, S.L.**, J.B. Lucks, G.H. Pelto. Managing 1,472 articles on pica. Strategies for hypothesis testing with a comprehensive literature review. Society for Anthropological Sciences. Savannah, Georgia. February 2006. (Oral presentation.)
234. **Young, S.L.** *Safura* [anemia], the disease of earth-eating? An investigation of the relationship of iron status to pica in Zanzibar. International Commission on the Anthropology of Food. Oxford, England. June 2005. (Oral presentation.)
235. **Young, S. L.** Mapping the Cultural and Physiological Components of Anemia on Pemba Island, Zanzibar. American Anthropological Association, Nutritional Anthropology section. Chicago, IL, November 2003. (Oral presentation.)
236. **Young, S. L.** Religious Conversion by Dogon Women: A Tactic of the Weak? Conference of the Netherlands African Studies Association. Leiden, the Netherlands, September 2003. (Oral presentation.)
237. **Young, S. L.** Straight Edge: Youth rebellion or voice of social conscience? American Midwest Sociological Society. Chicago, IL, April 2000. (Invited oral presentation.)
238. **Young, S. L.** Dogon Women's Religious Conversion: A Strategy for improved reproductive success? American Anthropological Association, Anthropology of Religion. Philadelphia, PA, April 1999. (Oral presentation.)

## TRAINING

**The OpEd Project :: Public Voices Fellowship** — 2018-2019

**National Institute of Health's Advanced Training Institute on Health Behavior Theory** — Summer 2012

**American Psychological Association's Cyber Mentor Program for HIV research, Committee on Psychology and AIDS** — Fall 2009-Fall 2011

**Dannon Nutrition Leadership Institute** — Spring 2009

**New Investigator in Global Health Program, Global Health Council** — Spring 2009

**Cells to Society Biomarker Institute, Northwestern University** — Spring 2008

## TEACHING

**Turning your numbers into a story: A quantitative methods class, Northwestern University:** Anthropology 390-0-23/Global Health 390-0-22 — Fall 2017, Fall 2018, Fall 2019

**Biocultural perspectives on water insecurity, Northwestern University:** Anthropology 390-0-22/Global Health 390-0-253 — Spring 2018, Spring 2019

**Ecology of Infant feeding, Northwestern University:** Anthropology 390-0-32/Global Health 390-0-24 — Winter 2017, Winter 2018, Winter 2019

**Undergraduate independent research, Northwestern University:** Anthropology 399-0-32/Global Health 399-0-3 — Fall 2016, Winter 2017, Spring 2017, Fall 2017, Winter 2018, Spring 2018, Fall 2018, Winter 2019, Spring 2019, Fall 2019

**Undergraduate independent research, Cornell University:** NS 4010 - Empirical Research; BIOG 2990; BIOG 4990 — Fall 2012-Present

**Community and International Nutrition Seminar Series, Cornell University:** NS 6980 — Fall 2012, Spring 2013

**Nutrition in Developing Countries, UC Berkeley School of Public Health:** Lecturer: PH 298.41 — Spring 2008

**Nutritional Problems of Developing Nations, Cornell University:** Teaching Assistant: NS 306 — Spring 2004

**English Literature, Special Ed, Port Huron School District, Michigan:** Substitute Teacher: — Spring 2000

**Secondary Level Teaching Certificate, University of Michigan, Ann Arbor: — 1999**

**Cultural Anthropology, Plymouth Canton High School, Michigan: Student Teacher : — Spring 1999**

**AP English, Cass Technical High School, Detroit, Michigan: Student Teacher: — Fall 1998**

## **GUEST LECTURES**

Northwestern, 2017, 2018, 2019. Guest lecture in Water in Israel and the Middle East: Resilience, Sustainability, and Security. "Water insecurity: Prevalence, security, and assessment."

Cornell University, 2012, 2014. Guest lectures in graduate courses NS 6370 Topics in Nutritional Epidemiology and NS 6140 Maternal and Child Nutrition.

Cornell University, 2012, Cornell Health International Association. ""Craving Earth: A tale of three hypotheses"

University of California, Berkeley. Global Health. 2007, 2008, 2009\*, 2010. \*Voted by class as "favorite lecture of the semester".

## **TEACHING AWARDS & HONORS**

**Searle Fellows Program ::** Northwestern University. 2017-2018. Program for learning and implementing evidence-based approaches to teaching.

**Sugar Award ::** One Laptop Per Child — 2007. For the development of the best educational children's software.

**Student-Intern Teacher of the Year Honorable Mention ::** State of Michigan — 1999. For the demonstration of outstanding potential as an educator.

## **STUDENTS**

**Doctoral students, committee chair:** *Current:* Margaret Butler (Northwestern), Patrick Mbullo (Northwestern), *Past:* Marianne Vicky Santoso (Cornell, graduated 2019) Roseanne Schuster (Cornell, graduated in 2016), Barnabas Natamba (Cornell, graduated in 2015)

**Doctoral students, committee member:** *Current:* Elizabeth Koselka (Northwestern), Betty Samburu (Kenyatta University), Melissa Manus (Northwestern); *Past:* Sarah Dumas (Cornell, graduated 2017), Elizabeth Fox (Cornell, 2017), Anne Williams (University of California, Davis, 2016), Sarah Pedersen (Cornell, 2015)

**Medical students:** *Current:* Maya Jackson-Gibson (Northwestern); *Past:* Angela Arbach (Cornell Weill), Natalie Krumdieck (Cornell Weill), Jason Nagata (University of California, San Francisco), Alexis Steinmetz (Loyola)

**Master's students:** *Present:* Mira Wang, Hollyn Cetrone; *Past:* Allison Mark, Virginia Nowakowski, Shalean Collins (Tulane)

**Postdoctoral associates:** *Current:* Vidya Venkataramanan, Vicky Santoso; *Past:* Godfred Boateng, Yolanda Brooks, Katie Fiorella, Paula Pebsworth, Aditi Roy, Emily Tuthill, Elizabeth Widen

**Undergraduate students at Northwestern:** Nihmotallahi Adebayo, Samuel Balka, Amelia Beck, Casey Benzaken, Hollyn Cetrone, Cheryl Chen, Kathleen Clark, Jo Ann Efobi, Priyanka Garigipati, Maxime Godart, Tracy Guo, Brooke Hassan, Jordan Harris, Amy Lin, Denise Lopez, Ashleigh Maclean, David McCuskey, Daniel Peters, Hayley Platt, Sophia Olmos, Anna Scarbrough, Benjamin Thomae, Emilie Umuhire, Mira Wang, Julia Yeam

**Undergraduate students at Cornell:** Cedric Ahn, Chaele Arkfeld, Eleonore Baughan, Lauren Blacker, Corrine Casal, Pooja Desai, Melanie Graber, Damarys Hernandez, Josephine Hong, Jen Huang, Hijab Khan, Paige Killeala, Joanie Kim, Heather Larkin, Ann Lei, Janice Lin, Phoebe Lo, Rachel Lumish, Abena Maranga, Emily Martey, Devon McMahan, Chloe Michel, Joshua Miller, Lusine Mehrabyan, Sophie Mou, Jacqueline Rivera, Marion Robine, Keith Ryan, Evelyn Samuel, Gretchen Seim, Rie Seu, Santana Silver, Shanna Smith, Christina Son, Alexis Steinmetz, Luisa Temple, Irene Tsai, Kelechi Umoga, Shiliu Wang, Tingting Wu, Amy Zheng

## FIELD RESEARCH, BY TOPIC

### **Food and water insecurity:**

**Household Water Insecurity Experiences (HWISE) Scale** :: 26 sites worldwide :: Northwestern University — 2016-present

A 28-site, multi-partner collaboration to design and refine a novel cross-culturally validated household water insecurity scale, as well as the development of a scale implementation manual (<http://sites.northwestern.edu/hwise/>).

**Health Consequences of Water Insecurity for HIV+ Women & Their Infants** :: Kisumu, Kenya :: Northwestern University, Kenyan Medical Research Institute, and Family AIDS Care and Education Services, — 2016-present  
An observational study of the consequences of water insecurity for adverse maternal and infant health outcomes among a cohort of HIV-infected and uninfected pregnant and lactating women in western Kenya.

**Singida Nutrition and Agroecology Project** :: Singida, Tanzania :: Cornell University, Northwestern University, Action Aid Tanzania, Nelson Mandela Agricultural Institution of Science and Technology 2014— present  
We are assessing if a participatory educational intervention about nutrition, climate change, agroecology, and gender equity that we co-created with rural farmers in E. Africa improves women's empowerment, food insecurity, and infant feeding practices in Singida, Tanzania.

**Health Consequences of Food & Nutrition Insecurity for HIV+ Women & Their Infants** :: Kisumu, Kenya :: Northwestern University, Cornell University, Kenyan Medical Research Institute, and Family AIDS Care and Education Services, — 2013-present

An observational study of the role of food insecurity in adverse maternal and infant health outcomes among a cohort of HIV-infected and uninfected pregnant and lactating women in western Kenya.

**Food insecurity and nutritional status of patients infected with tuberculosis and HIV in Gulu, Northern Uganda (The FINITH Study)** :: Gulu, Uganda :: Cornell University and Gulu University — 2013-2014

A cross-sectional study of the effects of food insecurity on disease and nutritional status among adult Ugandans infected with TB and/or HIV.

**Prenatal Nutrition And Psychosocial Health Outcomes (PreNAPs) study** :: Gulu, Uganda :: Cornell University and Gulu University — 2012-2015

A longitudinal cohort study of the effects of food insecurity on depression, stress, and gestational weight gain among HIV-infected and -uninfected pregnant women.

### **Nutrition and HIV:**

**PROMOTE study (Prevention of Malaria and HIV disease in Tororo)** :: Tororo, Uganda :: University of California, San Francisco and Makerere University — 2011-2013

Assessing and intervening to improve nutritional and obstetric outcomes among a cohort of HIV+ women receiving anti-retroviral therapy and their HIV-exposed infants.

**Feasibility and pilot efficacy of Flash heated breastmilk to reduce pediatric HIV** :: Dar es Salaam, Tanzania — 2008-2011

Scientific coordinator of a multi-disciplinary study of the effects of home-based education on exclusive breastfeeding and the uptake and consequences of rapid heating of breastmilk among HIV+ women in urban Tanzania.

### **Program Development and Implementation Research:**

**Understanding the Barriers and Facilitators to Uptake, Provision, and Management of Prevention of Vertical Transmission of HIV Services in Inhassoro District, Mozambique** :: Cornell University and CARE-Mozambique — 2012-present.

A pilot intervention study to determine if performance based incentives can improve the quality of care provided to HIV-infected pregnant women.

**Reaching the Hard to Reach: Documenting World Vision Haiti Mobile Clinic Best Practices** :: Haiti :: Cornell University and World Vision — 2011

Determining best practices for reducing maternal anemia among rural women via mobile clinic services.

**Maternal anemia care, program evaluation** :: Pemba Island, Zanzibar, Tanzania : Cornell University / Zanzibar Ministry of Health— 2006

Conducted community surveys, focus group discussions and interviews with traditional and biomedical health care workers, private medicine retailers and pregnant women to understand how use of anemia medicine can be improved.

**Adapting EFNEP to the changing needs of food-assistance eligible families in the era of welfare reform** :: Qualitative Researcher : **Cornell University** — 2003-2004

Conducted interviews and focus group discussions with nutritional education program staff as part of a USDA-funded multi-state research project to understand the effects of welfare reform on nutritional status and well-being.

### **Pica**

**Antojitos study, the relationship between pregnancy, pica, iron status, and cognitive function** :: Salinas, California — 2008-2011

Primary investigator of a study of nutritional behaviors and beliefs, and their associations with iron status and cognitive function among pregnant Hispanic women.

**Quantitative and qualitative study of non-food cravings, primary investigator** :: Pemba Island, Zanzibar, Tanzania : Cornell University— 2004

Secured funding, hired, and trained Zanzibari fieldworkers to collect epidemiological data about consumption of non-food substances (pica) in 700 adults as part of a larger trial on the prevention of severe anemia (PI Rebecca Stoltzfus). Conducted in-depth interviews about pica (the cravings for and consumption of non-food substances) with community members and health care workers. Collected samples of pica substances for biochemical analysis.

**Perceptions of anemia during pregnancy** :: Pemba Island, Zanzibar, Tanzania : University of Amsterdam — 2002

Qualitative data was collected about the perceived causes, cures, and appropriateness of UNDP-supplied ferrous sulfate and traditional medicines for the treatment of anemia during pregnancy. Analyzed data to make suggestions about how traditional and biomedical treatments can be linked.

### **Other**

**Hospital Renovation, project manager** :: Pemba Island, Zanzibar, Tanzania — 2001, 2003, 2005.

Identified areas of need, raised all funds, and oversaw renovations of Mental Hospital, Maternity Ward and Children's Ward.

**"Down for the count in the Bijlmer"** :: Interviewer : University of Amsterdam — 2002.

Censused and interviewed homeless people about drug use, health care, and general well-being in low-income neighborhoods in Amsterdam.

**Polygyny and child mortality** :: Mali, West Africa / University of Michigan — 1998.

Field manager of longitudinal biological anthropological study comparing infant mortality by family structure. Responsibilities included fieldworker hiring, anthropometry of 1000 0-5 year old children, household surveys, censusing villages, house construction, and data organization.

## **RESEARCH POSITIONS & CONSULTANCIES**

**Bangladesh Rural Advancement Committee (BRAC)**— 2009

Consulting on reports from Research and Evaluation Division of BRAC.



**Program for Appropriate Technology in Health (PATH), Washington DC — 2009**

Advised on assessment of nutritional needs among HIV-positive pregnant and lactating Rwandan women.

**Instituto Nacional de Salud Pública (INSP), Cuernavaca, Mexico — 2007**

Evaluation of quantitative and qualitative data on the acceptability of micronutrient tablets, sprinkles and a fortified food to pregnant and lactating Oportunidades recipients.

**University of Amsterdam — 2001-2006**

Responsible for translation and text editing of dissertations, articles, and grant proposals. Converted four PhD manuscripts into books.

**Kelsey Museum of Archaeology : University of Michigan— 1997-1998**

Assisted with reconstruction of an ancient Greek mosaic mural, sorted and classified Etruscan coins.

**Royal Museum of Central Africa : Tervuren, Belgium — 1997**

Assisted with editing “Zimbabwe: Legacies of Stone Past and Present: Volume I and II”.

**DEPARTMENT, COLLEGE, AND UNIVERSITY MEMBERSHIPS & SERVICE**

**Northwestern service**

Weinberg College of Arts and Sciences Committees on Appeals — 2019-present

Office of the Provost Research Networking Lunch, Co-leader — 2018-2019

Tenure & Promotion Committee for Global Health — 2017-present

Program in African Studies, Executive Committee — 2017-present

Accelerated Master’s in Public Health Admissions Committee — 2017-present

Global Health Curriculum Committee — 2016-present

Global Health Case Competition Judge — 2017

**Cornell service**

Cornell University :: Search Committee, Master’s in Public Health Curriculum Development Committee 2016

Nutrition Graduate Student Organization :: Secretary, Social Director, Faculty Liaison, Founder and member of the Committee on Professional Development : Cornell University— 2003-2007

Academic Integrity Hearing Board :: Graduate Representative : Cornell University— 2004

**LANGUAGES**

English : Dutch : French : Swahili

**INVITED TALKS**

*Government Agencies & NGOs:* USAID, USDA, UK AID, Oxfam-GB, Millennium Challenge Corporation, International Food Policy Research Institute, Rotary International, and World Bank, 2019. “The Household Water Insecurity Experiences (HWISE) Scale: A cross-culturally valid tool for the measurement of water insecurity.”

Royal Geographic Society, London, UK, 2018. “The Household Water Insecurity (HWISE) Scale: a ‘look under the bonnet’”

University of Cape Coast, Ghana, 2018. “The links between household water insecurity and food insecurity in sub-Saharan Africa (and the story behind how this work was funded)”

United States Agency for International Development, 2017. “The Household Water Insecurity Experiences (HWISE) Scale: A cross-culturally valid tool for the measurement of water insecurity.”

United Nations Commission on the Status of Women, 2017. "Food security in the first 1,000 days".

*Academic Institutions*: Buffett Institute, NICO, and IPR, 2019. "The Household Water Insecurity Experiences (HWISE) Scale: A cross-culturally valid tool for the measurement of water insecurity."

Northwestern University, 2019. "The power of breastfeeding."

Workshop on Globalization, Northwestern University, 2018. "Health Effects of Globalization."

Third Annual Symposium on Water in Israel and the Middle East, Northwestern University, 2018. "The Economic, Health, and Psychosocial Consequences of Household Water Insecurity."

Microgrids Symposium, Northwestern University, 2018. "Realizing the human benefits of improved energy access." <https://bit.ly/2r12VC4>

Northwestern University Dumas Domain Dinner, 2017. "Water Insecurity: Understanding its Consequences and Identifying Solutions."

Third Coast Center for AIDS Research. "If I Can't Eat, How Can I Feed?: Food Insecurity, HIV, and Maternal and Child Health."

Program in African Studies & Institute for Policy Research, Northwestern University. October 2017. "Why is Food Insecurity So Harmful in the First 1,000 Days of Life? Findings from East Africa."

Emory University, 2015. "If I can't eat, how can I feed?: Food and water insecurity, HIV, and maternal and child health."

University of California, San Francisco, 2012, Reproductive Infectious Diseases Seminar. "Current knowledge and future research areas on infant feeding in the context of HIV: Basic, clinical, behavioral, and programmatic perspectives." <http://bit.ly/LVfJcw> and <http://db.tt/Uww3XHRH>

Cornell University, 2011. "Chats in the Stacks: Craving Earth." <http://www.youtube.com/watch?v=-KX2bwGAxuM>

Touro University, Mare Island, California. 2010, 2011.

University of California, Davis Medical Center. Grand Rounds: Pediatrics. 2008.

University of California, San Francisco. "Local health meets global health group. 2008.

University of Illinois, at Chicago. Department of Anthropology. 2007.

## WEBINARS

Engineering for Change, 2019. "A tool to measure household water insecurity globally." <https://www.engineeringforchange.org/webinar/measuring-worlds-water-insecurity/>

IMMANA, 2019. "A cross-culturally equivalent measure of household water security: experiences in scale development and implementation from 30 sites worldwide." <https://www.youtube.com/watch?v=juTDN7YGbCs&t=12s>

International WaTERS Webinar, 2018. "You are alert all the time just in case you hear rumors that there is water somewhere': Lived experiences of water insecurity during pregnancy and lactation in western Kenya." <https://bit.ly/2wHr9S5>

## PROFESSIONAL SERVICE

**Maternal and Child Nutrition** :: Editorial Board 2017-2022

**World Food Program** :: Inter-agency Task Team for Food, Nutrition, and HIV — Member 2014-2017

**Society for Applied Anthropology** :: Nominations Committee 2016-2020, Chair 2019-2020; Malinowski Award Selection Committee 2015-2020, Chair 2018-2019

**American Society for Nutrition** :: At Large Member of the Global Nutrition Executive Council 2014-2016; Graduate and Professional Education Executive Committee Member— 2006-2008

**Dannon Nutrition Leadership Institute** :: President — 2015-2017; President-elect — 2012-2015; Treasurer — 2010-2012

**Cornell University** :: Search Committee, Master's in Public Health Curriculum Development Committee 2016

**Food and Agriculture Organization** :: High Level Panel of Experts Committee on Critical and Emerging Issues for Food Security and Nutrition — 2014

**Society for the Anthropology of Food and Nutrition** :: Vice-President — 2012-2014; National Meeting Program Chair — 2010-2012

**Ad hoc reviewer** :: Advances in Nutrition, African Health Sciences, African Journal of Biotechnology, African Journal of AIDS, American Journal of Clinical Nutrition, American Journal of Human Biology, American Journal of Obstetrics and Gynecology, American Journal of Tropical Medicine and Hygiene, Berghahn Books, BMC Breastfeeding Medicine, BMC Medicine, BMC Pregnancy and Childbirth, BMC Research Notes, Ecology of Food and Nutrition, Environmental Geochemistry and Health, Epidemiology and Infection, Evolution, Medicine, and Public Health, International Breastfeeding Journal, International Journal of Obesity, Journal of Acquired Immune Deficiency Syndrome, Journal of AIDS and Clinical Research, Journal of AIDS and HIV Research, Journal of Health, Population, and Nutrition, Journal of Nutrition, Journal of Tropical Ecology, Maternal and Child Health Journal, Maternal and Child Nutrition, Medical Anthropology, Medical Anthropology Quarterly, Medische Antropologie, National Research Foundation (South Africa), PLoS One, Population Health Metrics, Public Health Nutrition, Science Translational Medicine, Scientific Research and Essays, Sigma Delta Epsilon/Graduate Women in Science Fellowship, Social Sciences and Humanities Research Council of Canada, Social Science and Medicine, Texas Biomedical Research Institute, Toxicology Reports, Transactions of the Royal Society of Tropical Medicine and Hygiene, UCSF's Center of Excellence in Women's Health, Yearbook of Physical Anthropology

**One Laptop Per Child** :: Co-developer of children's math game Kuku Anakula (<http://wiki.laptop.org/go/Kuku>) — 2007

**Nutrition Graduate Student Organization** :: Secretary, Social Director, Faculty Liaison, Founder and member of the Committee on Professional Development : Cornell University— 2003-2007

## PROFESSIONAL MEMBERSHIPS & AFFILIATIONS

*Nationally:* American Anthropological Association; American Society for Nutrition; Human Biology Association; Society for Applied Anthropology; International Society for Research in Human Milk and Lactation

*Northwestern:* Buffett Institute for Global Studies Faculty Affiliate; Institute for Policy Research Faculty Fellow, Northwestern Center for Water Research Participating Faculty; Third Coast Center for AIDS Research Fellow.

## PRESS COVERAGE

*News articles and blog coverage:*

**Gizmodo**, 2020. The Coronavirus Has Exposed a Global Water Crisis. New Research Shows How to Fix It <https://earth.gizmodo.com/the-coronavirus-has-exposed-a-global-water-crisis-new-1844827155>

**Opinion by Nicholas Kristof in the New York Times**, 2020. [https://messaging-custom-newsletters.nytimes.com/template/oakv2?uri=nyt://newsletter/edc50cfb-d102-4a45-8e4b-d0d7188b4061&productCode=NK&CCPAOptOut=true&te=1&nl=nicholas-kristof&emc=edit\\_nk\\_20200404](https://messaging-custom-newsletters.nytimes.com/template/oakv2?uri=nyt://newsletter/edc50cfb-d102-4a45-8e4b-d0d7188b4061&productCode=NK&CCPAOptOut=true&te=1&nl=nicholas-kristof&emc=edit_nk_20200404)

**How Stuff Works**, 2019. Why Do People Eat Dirt? <https://people.howstuffworks.com/culture-traditions/cultural-traditions/why-do-people-eat-dirt.htm>

**BBC**, 2019. Why do some people eat soil? <https://www.bbc.co.uk/sounds/play/w3csz1t4>

**Hindu Business Online**, 2019. Ask 12 questions to know the impact of water stress. <https://www.thehindubusinessline.com/economy/ask-12-queries-to-assess-economic-impact-of-lack-of-water/article28334641.ece>

**The Hindu**, 2019. Now, water insecurity can be measured. <https://www.thehindu.com/news/national/telangana/now-water-insecurity-can-be-measured/article28138629.ece>

**International Atomic Energy Agency**, 2019. Infants Consume Less Breast Milk in Households with Insecure Food Access, IAEA Research Project Finds. <https://bit.ly/314q8h0> (Also featured on the front page of [UN.org](https://www.un.org/))

**Northwestern University**, 2018. Securing Food and Water. <https://news.northwestern.edu/stories/2018/october/securing-food-and-water/>

**Northwestern University**, 2018. Q&A: Sera Young. <https://news.northwestern.edu/stories/2018/october/sera-young>

**MedPage Today**, 2018. Pica Among Pregnant Women in the US. <https://www.medpagetoday.com/resource-centers/focus-on-iron-deficiency-anemia/pica-among-pregnant-women-us/2251>

**Northwestern University**, 2017. Food or Water? <http://www.ipr.northwestern.edu/about/news/2018/young-food-or-water.html>

**Northwestern University**, 2017. Northwestern researchers take global lead on water insecurity. <https://news.northwestern.edu/stories/2017/september/northwestern-researchers-take-global-lead-on-water-insecurity/>

**Northwestern University**, 2017. Alumni work to strengthen ties with Mexico. <https://news.northwestern.edu/stories/2017/november/northwestern-university-remains-engaged-with-mexico/>

**Inside Science**, 2017. Ancient Practice of Eating Soil Might Pose Risks to Unborn Babies <https://www.insidescience.org/news/ancient-practice-eating-soil-might-pose-risks-unborn-babies>

**Northwestern University**, 2017. New Grants, Global Partnership Extend Water Center's Reach. <https://research.northwestern.edu/news/new-grants-global-partnership-extend-water-center%E2%80%99s-reach>

**Airone**, Italy, 2017. Mal di pancia? Mangiamoci un po' di terra. [http://www.cairoeditore.it/index.php?option=com\\_flippingbook&book\\_id=4428&Itemid=83](http://www.cairoeditore.it/index.php?option=com_flippingbook&book_id=4428&Itemid=83)

**NPR**, 2017. Why Do Parrots (And People) Eat Clay? <http://www.npr.org/sections/thesalt/2017/09/07/547981850/why-do-parrots-and-people-eat-clay>

**British Broadcasting Company (UK)**, 2016. The people who can't stop eating dirt. <http://www.bbc.com/future/story/20160615-the-people-who-cant-stop-eating-dirt?ocid=fbfut>

**Continente (Portugal)**, July 2014. Geofagia.

**The Guardian (UK)**, 2014. Why do some people love 'earthy' flavours in food? <http://www.theguardian.com/lifeandstyle/wordofmouth/2014/jul/29/why-some-people-love-earthy-flavours>

**Cornell Chronicle**, 2014. Pica in pregnant teens linked to low iron. <http://news.cornell.edu/stories/2014/08/pica-pregnant-teens-linked-low-iron>

**Science Daily**, 2014. Pica in pregnant teens linked to low iron. <http://www.sciencedaily.com/releases/2014/08/140820164026.htm>

**New York Times**, 2013. Digging Into the Dirt. 'Craving Earth' Looks at Pica, the Urge to Eat Unusual Substances. [http://www.nytimes.com/2013/07/09/science/craving-earth-looks-at-pica-the-urge-to-eat-unusual-substances.html?\\_r=0](http://www.nytimes.com/2013/07/09/science/craving-earth-looks-at-pica-the-urge-to-eat-unusual-substances.html?_r=0)

**Geo**, 2013. (National Geographic of Germany.) "Dreckige Geluste."

**National Geographic**, 2012. Guess Who's Eating Dirt: Surprising Number of Men Found Practicing Pica. <http://news.nationalgeographic.com/news/2012/10/121019-pica-food-health-science-madagascar-men-women-pregnant-eat-dirt/>

**Cornell Chronicle**, 2012. Study documents eating of soil, raw starch in Madagascar. <http://www.news.cornell.edu/stories/Nov12/PICA.html>

**Science Daily**, 2012. Eating of Soil and Raw Starch Documented in Madagascar. <http://www.sciencedaily.com/releases/2012/11/121109162023.htm>

**Scenes of Eating**, 2012. Review: Craving Earth, by Sera L. Young. <http://sceneseating.com/2012/01/24/review-craving-earth-by-sera-l-young/>

**Huffington Post**, 2011. Explained: Why People Sometimes Crave Dirt. [http://www.huffingtonpost.com/2011/06/07/dirt-cravings-explained\\_n\\_872532.html](http://www.huffingtonpost.com/2011/06/07/dirt-cravings-explained_n_872532.html)

**Scientific American**, 2011. Let them eat dirt. <http://www.scientificamerican.com/podcast/episode.cfm?id=let-them-eat-dirt-11-06-03>

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