

Asher Yoel Rosinger, PhD MPH

110 Biobehavioral Health Bldg
University Park, PA 16802
arosinger@psu.edu
Updated 8/2021

CURRENT POSITION

- 2019–present** **Ann Atherton Hertzler Early Career Professor in Global Health**
Department of Biobehavioral Health | Department of Anthropology
The Pennsylvania State University (PSU)
- 2017–present** **Assistant Professor**
Department of Biobehavioral Health | Department of Anthropology
Director of Water, Health, & Nutrition Laboratory, PSU
- 2017–present** **Faculty Associate**
Demography Program, Population Research Institute, PSU

EDUCATION AND TRAINING

- 2015–2017** **Epidemic Intelligence Service**
Centers for Disease Control and Prevention
National Center for Health Statistics; Supervisor: Cynthia Ogden
- 2008–2015** **PhD Anthropology**
The University of Georgia
Dissertation: Hydration Strategies, Nutrition, and Health during a Lifestyle
Transition in the Bolivian Amazon
- 2010–2012** **MPH Epidemiology**
The University of Georgia
- 2003–2007** **BA Anthropology & Psychology, highest distinction**
The University of North Carolina at Chapel Hill

PUBLICATIONS

Peer-Reviewed Journal Articles (n=53):

*undergraduate student; +graduate student; ^postdoc mentee; HWISE-RCN authorship represents my roles of data collection as site PI in San Borja Bolivia, intellectual contribution to the manuscript, and conveys same responsibility for content as front-listed authorship.

2021 and in press

1. **Rosinger AY**, Bethancourt HJ[^], Pauley A, Latona C*, John J*, Kelyman A*, Leonard K, Hohman E, McNitt K, Gernand AD, Downs DS, Savage JS. (In press). Variation in urine osmolality throughout pregnancy: A longitudinal, randomized-control trial among women with overweight and obesity. *European Journal of Nutrition*:
<https://doi.org/10.1007/s00394-021-02616-x>
2. **Rosinger AY**, Patel AI, Weaks F. (In press). Examining recent trends in the racial disparity gap in tap water consumption: NHANES 2011–2018. *Public Health Nutrition*:
<https://doi.org/10.1017/S1368980021002603>
3. Bethancourt HJ[^], Ulrich M, Almeida D, **Rosinger AY** (Senior, corresponding author). (2021). Household food insecurity, hair cortisol, and adiposity among Tsimane' hunter-forager-horticulturalists in Bolivia. *Obesity*: 29(6): 1046-1057.
<https://doi.org/10.1002/oby.23137>

4. Young S, Frongillo EA, Jamaluddine Z, Melgar-Quinonez H, Perez-Escamilla R, Ringler C, **Rosinger AY** (Alphabetical after Young). (2021). The importance of water security for ensuring food security, good nutrition, and well-being. *Advances in Nutrition*: 12 (4): 1058–1073. <https://doi.org/10.1093/advances/nmab003>
5. **Rosinger AY**, Olson S, Ellington S, Perez-Padilla J, Simeone R, Pedati C, Schroeder B, Santiago G, Medina F, Munoz-Jordan J, Adams L, Galang R, Valencia-Prado M, Bakkour S, Colon C, Goodwin M, Meaney-Delman D, Read JS, Petersen L, Jamieson D, Deseda C, Honein M, Rivera-Garcia B, Shapiro-Mendoza C. (2021). Evaluating differences in whole blood, serum, and urine Zika virus screening tests among asymptomatic pregnant women during a Zika virus outbreak, Puerto Rico, 2016. *Emerging Infectious Diseases*: 27(5): <https://doi.org/10.3201/eid2705.203960>
6. Stoler J, Brewis A, Kangmennang J, Keough SB, Pearson AL, **Rosinger AY**, Stauber C, Stevenson EGJ (Alphabetical after Stoler). (2021). Connecting the Dots between Climate Change, Household Water Insecurity, and Migration. *Current Opinion in Environmental Sustainability*: 51:36-41. <https://doi.org/10.1016/j.cosust.2021.02.008>
7. **Rosinger AY**, Bethancourt HJ[^], Swanson ZS⁺, Nzunza R⁺, Saunders J^{*}, Dhanasekar S^{*}, Kenney WL, Hu K, Douglass M, Ndiema E, Braun D, Pontzer H. (2021). Drinking water salinity is associated with hypertension and hyperdilute urine among Daasanach pastoralists in Northern Kenya. *Science of the Total Environment*: 770: 144667: <https://doi.org/10.1016/j.scitotenv.2020.144667>
8. Stoler J, Miller JD⁺, Brewis A, Freeman M, Harris L, Jepson W, Pearson AL, **Rosinger AY**, Shah S, Staddon C, Workman C, Wutich A, Young SL, HWISE RCN (Alphabetical after Miller). (2021). 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*: 234: 113715 doi.org/10.1016/j.ijheh.2021.113715
9. Bethancourt HJ[^], Swanson ZS⁺, Nzunza R, Huanca T, Conde E, Kenney WL, Young SL, Ndiema E, Braun D, Pontzer H, **Rosinger AY** (Senior, corresponding author). (2021). Hydration in relation to water insecurity, heat index, and lactation status in two small-scale populations in hot-humid and hot-arid environments. *American Journal of Human Biology*: 33(1): e23447: <https://doi.org/10.1002/ajhb.23447>.
10. Shirazi TN⁺, **Rosinger AY** (Senior, corresponding author). (2021). Reproductive health disparities in the United States: Self-reported race/ethnicity predicts age of menarche and live birth ratios, but not infertility. *Journal of Racial and Ethnic Health Disparities*: 8(1): 33-46 <https://doi.org/10.1007/s40615-020-00752-4>.
11. Young SL, Miller J⁺, Frongillo E, Boateng G, Jamaluddine Z, Neilands T, HWISE RCN: (**Rosinger AY**). (2021). 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*: 104(1): 391-394 <https://doi.org/10.4269/ajtmh.20-0417>

2020

12. **Rosinger AY**, Brewis A, Wutich A, Jepson W, Staddon C, Stoler J, Young SL, HWISE RCN. (2020). Water borrowing is consistently practiced globally and is associated with water-related system failures across diverse environments. *Global Environmental Change*: 64:102148: <https://doi.org/10.1016/j.gloenvcha.2020.102148>
13. Shirazi T⁺, Hastings W, **Rosinger AY**, Ryan C. (2020). Parity predicts biological age acceleration in post-menopausal women. *Scientific Reports*: 10: 20522 <https://doi.org/10.1038/s41598-020-77082-2>

14. **Rosinger AY**, Young SL. (2020). The toll of household water insecurity on health and human biology: Current understandings and future directions. *WIREs Water*: 7(6):1-22 <https://doi.org/10.1002/WAT2.1468>.
15. **Rosinger AY**, Young SL. (2020). In-home tap water consumption trends changed among US children, but not adults, between 2007 and 2016. *Water Resources Research*: 56(7): e2020WR027657.
16. Venkataramanan V, Geere JA, Thomae B, Stoler J, Hunter PR, Young SL, HWISE RCN (**Rosinger AY**). (2020). In pursuit of “safe” water: the burden of personal injury from water-fetching in 21 low- and middle-income countries. *BMJ Global Health*: <http://dx.doi.org/10.1136/bmjgh-2020-003328>.
17. Bethancourt HJ[^], Kenney WL, Almeida D, **Rosinger AY** (Senior, corresponding author). (2020). Cognitive performance in relation to hydration status and water intake among older adults, NHANES 2011-2014. *European Journal of Nutrition*: 59:3133-3148 doi.org/10.1007/s00394-019-02152-9
18. Aguree S⁺, Bethancourt H[^], Martin L, **Rosinger AY**, Gernand A. (2020). Plasma volume variation across the menstrual cycle among healthy women of reproductive age: a prospective cohort study. *Physiological Reports*: 8(8): e14418: <https://doi.org/10.14814/phy2.14418>.
19. **Rosinger AY**, Brewis A. (2020). Life and death: Toward a human biology of water. *American Journal of Human Biology*: 32 (1), e23361 <https://doi.org/10.1002/ajhb.23361>.
20. **Rosinger AY**. (2020) Bio-behavioral variation in human water needs: How adaptations, early life environments, and the life course affect body water homeostasis. *American Journal of Human Biology*: 32 (1), e23338 <https://doi.org/10.1002/ajhb.23338>
21. Wutich A, **Rosinger AY**, Brewis A, Stoler J, Jepson W. (2020). Measuring human water needs. *American Journal of Human Biology*: 32 (1), e23350 <https://doi.org/10.1002/ajhb.23350>
22. Schuster RC, Butler MS, Wutich A, Miller JD, Young SL, & **HWISE-RCN: (Rosinger AY)**. (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*: 32 (1), e23357 <https://doi.org/10.1002/ajhb.23357>
23. Brewis A, Workman C, Wutich A, Jepson W, Young S, & **HWISE RCN: (Rosinger A)**. (2020). Household Water Insecurity Is Strongly Associated with Food Insecurity: Evidence from 27 Sites in Low- and Middle-Income Countries. *American Journal of Human Biology*: 32 (1), e23309 <https://doi.org/10.1002/AJHB.23309>
24. Stoler J, Pearson AL, Staddon C, Wutich A, Mack E, Brewis A, **Rosinger AY**, & HWISE RCN. (2020). 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*: 716:135881 <https://doi.org/10.1016/j.scitotenv.2019.135881>

2019

25. Bethancourt H[^], Leonard WR, Tanner S, Schultz AF, **Rosinger AY** (Senior, corresponding author). (2019) Longitudinal changes in body composition and diet among adult Tsimane’ forager- horticulturalists of Bolivia, 2002–2010. *Obesity*: 27(8):1347-1359.
26. Young S, Boateng GO, Jamaluddine Z, Miller JD, Frongillo EA, Neilands TB, Collins SM, Wutich A, Jepson W, Stoler J, & **HWISE RCN: (Rosinger AY)**. (2019) 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*: doi:10.1136/bmjgh-2019-001750

27. **Rosinger AY**, Bethancourt HJ[^], Francis LA. (2019). Association of Caloric Intake From Sugar-Sweetened Beverages With Water Intake Among US Children and Young Adults in the 2011-2016 National Health and Nutrition Examination Survey. *JAMA Pediatrics*: 173(6): 602-604. **(99th percent altmetric score)**
28. **Rosinger AY**, Ice G. (2019). Secondary data analysis to answer human biology questions. *Methods Toolkit article. American Journal of Human Biology*: 31(3): e23232 (1-19).
29. **Rosinger AY**, Pontzer H, Raichlen D, Wood B, Tanner S, Sands J. (2019). Age-related decline in urine concentration may not be universal: Comparative study from the US and two small-scale societies. *American Journal of Physical Anthropology*: 168(4): 705-716. <https://doi.org/10.1002/AJPA.23788>
30. **Rosinger AY**, Chang A-M, Buxton O, Li J, Wu S, Gao X. (2019). Short sleep is associated with inadequate hydration: Cross-cultural evidence from US and Chinese adults. *SLEEP*, 42(2):1-10 <https://doi.org/10.1093/sleep/zsy210> **(99th percent altmetric score)**
31. Brewis A, **Rosinger A**, Wutich A, Adams E, Cronk L, Pearson A, Workman C, Young S, & **HWISE RCN**. (2019). Water Sharing, Reciprocity, and Need: A Comparative Study of Inter-Household Water Transfers in Sub-Saharan Africa. *Economic Anthropology*, 6(2): 208-221. <https://doi.org/10.1002/sea2.12143>
32. Young SL, Collins SM, Boateng GO, Neilands TB, Jamaluddine Z, Miller JD, Brewis AA, Frongillo E, Jepson W, Melgar-Quinonez H, Schuster RC, Stoler J, Wutich A, & **HWISE RCN: (Rosinger AY)** (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.org/10.1136/bmjopen-2018-023558
33. Stoler J, Brewis AA, Harris L, Wutich A, Pearson A, **Rosinger AY**, Schuster RC, Young SL. (2019). Household Water Sharing: A Missing Link in International Health. *International Health*: 11(3): 163-165 <https://doi.org/10.1093/inthealth/ihy094>

2018

34. **Rosinger AY**, Herrick K, Wutich A, Yoder J, Ogden C. (2018). Tap or bottled water? Disparities in plain, tap, and bottled water consumption among US adults, 2007–2014. *Public Health Nutrition*; 21(8): 1455-1464.
35. **Rosinger AY**. (2018). Household water insecurity after a historic flood: Diarrhea and dehydration in the Bolivian Amazon. *Social Science & Medicine*; 197: 192-202.
36. 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. (2018). Household Water Sharing: A review of water gifts, exchanges, and transfers across cultures. *Wiley Interdisciplinary Reviews – Water*: 5(6): e1309.
37. **Rosinger AY**, Young SL, +Collins SM, Haider SR, Mishra P, Nagai HT, Petro M, Downs JA. (2018). Schistosomiasis and hydration status: *Schistosoma haematobium*, but not *Schistosoma mansoni* increases urine specific gravity among rural Tanzanian women. *American Journal of Physical Anthropology*: 166(4): 952-959.
38. **Rosinger AY**, Puts D. (2018). It's complicated: Why raters' BMI poorly explained attractiveness ratings. *Obesity*: 26(3): 461-462. **(Invited commentary)**

2017

39. Shapiro-Mendoza CK, Rice ME, Galang RR, Fulton AC, VanMaldeghem K, Prado MV, Ellis E, Anesi MS, +Simeone RM, Petersen EE, Ellington SR, Jones AM, Williams T, Reagan-Steiner S, Perez-Padilla J, Deseda CC, Beron A, Tufa AJ, **Rosinger A**, Roth NM, Green C, Martim S, Lopez CD, deWilde L, Goodwin M, Pagano HP, Mai CT, Gould C, Zaki S, Ferrer LN, Davis MS, Lathrop E, Polen K, Cragan JD, Reynolds M, Newsome KB, Huertas MM, Bhatangar J, Quiñones AM, Nahabedian JF, Adams L, Sharp TM, Hancock WT, Rasmussen SA, Moore CA, Jamieson DJ, Munoz-Jordan JL, Garstang

H, Kambui A, Masao C, Honein MA; Meaney-Delman D; Zika Pregnancy and Infant Registries Working Group. (2017). Pregnancy outcomes after maternal Zika Virus infection during pregnancy – U.S. territories, January 1, 2016 – April 25, 2017. *MMWR Morb Mortal Wkly rep*; 66:615-621.

40. **Rosinger A**, Carroll M, Lacher D, Ogden C. (2017). Decreasing trends in Total Cholesterol, Triglycerides, and Low-Density Lipoprotein in U.S. adults, 1999–2014. *JAMA Cardiology*; 2(3):339-441. **(99th percentile altmetric score)**
41. **Rosinger A**, Herrick K, Gahche J, Park S, Frenk S. (2017). Percentage of Total Daily Kilocalories Consumed from Sugar-Sweetened Beverages Among Children and Adults, by Sex and Income Level— National Health and Nutrition Examination Survey, United States, 2011–2014. *MMWR Morb Mortal Wkly Rep*; 66(6); 181.
42. **Rosinger A**, Herrick K, Gahche J, Park S. (2017). Sugar-sweetened beverage (SSB) consumption among U.S. adults, 2011-2014. *NCHS Data Brief #270*: 1-8.
43. **Rosinger A**, Herrick K, Gahche J, Park S. (2017). Sugar-sweetened beverage (SSB) consumption among U.S. youth, 2011-2014. *NCHS Data Brief #271*: 1-8.

2016

44. **Rosinger A**, Lawman H, Akinbami L, Ogden C. (2016). The role of obesity in the relationship between water intake and hydration status in US adults: 2009–2012. *American Journal of Clinical Nutrition*; 104: 1554-1061.
45. Adams L, Bello-Pagan M, Lozier M, Ryff KR, Espinet C, Torres J, Perez-Padilla J, Febo MF, Dirlikov E, Martinez A, Munoz-Jordan J, Garcia M, Segarra MO, Malave G, Rivera A, Shapiro-Mendoza C, **Rosinger A**, Kuehnert MJ, Chung KW, Pate LL, Harris A, Hemme RR, Lenhart A, Aquino G, Zaki S, Read JS, Waterman SH, Alvarado LI, Alvarado-Ramy F, Valencia-Prado M, Thomas D, Sharp TM, Rivera-Garcia B. (2016). Update: Ongoing Zika Virus Transmission - Puerto Rico, November 1, 2015-July 7, 2016. *MMWR Morb Mortal Wkly Rep*; 65:774–779.
46. Simeone RM, Shapiro-Mendoza CK, Meaney-Delman D, Petersen EE, Galang RR, Oduyebo T, Rivera-Garcia B, Valencia-Prado M, Newsome KB, Pérez-Padilla J, Williams TR, Biggerstaff M, Jamieson DJ, Honein MA & **Zika and Pregnancy Working Group (Rosinger AY)**. (2016). Possible Zika Virus Infection Among Pregnant Women - United States and Territories, May 2016. *MMWR Morb Mortal Wkly Rep*; 65(20):514-9.
47. **Rosinger A**, Herrick K. (2016). Daily water intake among U.S. men and women, 2009–2012. *NCHS Data Brief #242*, 1-8.

2013-2015

48. **Rosinger A**. (2015). Heat and hydration status: Predictors of repeated measures of urine specific gravity among Tsimane' adults in the Amazon. *American Journal of Physical Anthropology*; 158(4): 696-707.
49. Leonard W, Reyes-García V, Tanner S, **Rosinger A**, Schultz A, Vadez V, Zhang B, TAPS Study Team, Godoy R. (2015). The Tsimane' Amazonian Panel Study (TAPS): Nine years (2002-2010) of annual data available to the public. *Economics & Human Biology*; 19: 51-61.
50. **Rosinger A**. (2015). Dehydration among Lactating Mothers in the Amazon: A Neglected Problem. *American Journal of Human Biology*; 27(4)*: 576-578. **Contributed cover photo.**
51. **Rosinger A**, Tanner S. (2015). Water from fruit or the river? Examining hydration strategies and gastrointestinal illness among Tsimane' adults in the Bolivian Amazon. *Public Health Nutrition*; 16(6): 1098-1108.
52. **Rosinger A**, Tanner S, Leonard W, TAPS Study Team. (2013). Precursors to over-nutrition: The effects of household market food expenditures on measures of body composition among Tsimane' adults in lowland Bolivia. *Social Science & Medicine*; 92: 53-60.

53. Tanner S, **Rosinger A**, Leonard WR, Reyes-Garcia V, TAPS Study Team. (2013). Health and adult productivity: The relationship between adult nutrition, helminth infection, and agricultural, hunting, and fishing yields in the Bolivian Amazon. *American Journal of Human Biology*; 25(1): 123-130.

Refereed Book & Handbook Chapters

54. **Rosinger AY**, Bethancourt HJ[^]. (2020). Chicha as Water: Traditional Fermented Beer Consumption Among Forager Horticulturalists in the Bolivian Amazon. In *Alcohol and Humans: A long and social affair*. Eds. Kimberley Hockings & Robin Dunbar. Oxford University Press. Pages 147-162.
55. **Rosinger A**, Godoy R. (2016). Height and weight of native populations. In J. Komlos and I. Kelly, *The Oxford Handbook of Economics and Human Biology*. Oxford University Press. Pages 192-209.
56. Tanner S, **Rosinger A**. (2014). Salud y nutrición: Perfil y cambio. Reyes-Garcia V & Huanca T, Eds. *Cambio Local – Cambio Global: Radiografía del Proceso de Cambio en la Sociedad Tsimane'*, Amazonia Boliviana. Barcelona, Icaria editorial. Pages 255-282.

Popular pieces

1. **Rosinger AY**. (2021). The Human Thirst. *Scientific American*. 325, 1, 38-43 (**July issue Cover story**). <https://www.scientificamerican.com/article/human-evolution-led-to-an-extreme-thirst-for-water/>
2. **Rosinger AY**. (2021). Nearly 60 million Americans don't drink their tap water, research suggests – here's why that's a public health problem. *The Conversation*. <https://theconversation.com/nearly-60-million-americans-dont-drink-their-tap-water-research-suggests-heres-why-thats-a-public-health-problem-158483> Picked up by 40 publishers.

Works under review:

1. Wutich A, **Rosinger A**, Brewis A, Beresford M, Young S, & HWISE RCN. Water sharing is a conflictual and distressing reciprocal practice: Cross-cultural evidence. Conditional accept: *American Anthropologist*.
2. **Rosinger AY**, Bethancourt HJ[^], Young SL, Schultz AF. The embodiment of water insecurity: Water-related injuries and chronic stress in Lowland Bolivia. R&R'd.
3. Stoler J, Pearson AL, **Rosinger AY**, Bombardi R, Brewis A, Keough SB, Lee A, Lopez-Carr D, Shrader C-H, Stauber C, Sullivan A, Stevenson E, Tutu R (Alphabetical after Rosinger). The role of water in environmental migration. R&R'd.
4. Moss M, Luo H, **Rosinger AY**, Jacobs MM, Kaur R. High Sugar Intake from Sugar Sweetened Beverages is Associated with Prevalence of Untreated Decay in US Adults: NHANES 2013-2016. R&R.
5. Stoler J & HWISE RCN (**Rosinger AY**). The Household Water Insecurity Experiences (HWISE) Scale: Comparison Scores from 27 Sites in 22 Countries. Under review.
6. **Rosinger AY**, Bethancourt HJ[^], Swanson ZS⁺, Lopez K^{*}, Kenney WL, Huanca T, Conde E, Nzunza R, Ndiema E, Braun DR, Pontzer H. Cross-cultural variation in thirst perception in hot-humid and hot-arid environments: Evidence from two small-scale populations. Under review.

Works in progress (Only first & senior author papers listed):

1. Water borrowing, water insecurity, and psychosocial stress among Daasanach

2. The co-occurrence of water and food insecurity among Daasanach agro-pastoralists in northern Kenya
3. Tap water consumption is associated with lower food insecurity in the US: Evidence from NHANES 2005-2018
4. Water Needs, Water Insecurity, and Human Biology. Invited review for Annual Review of Anthropology.
5. Using dietary recall data to provide a window into water insecurity

GRANTS

External

- NICHD: T-32: Social Environments and Population Health.
 - Program Faculty, Mentor to T-32 Pre-Doctoral Fellow Leslie Ford (PIs John Iceland, Jenny Van Hook; Status: Ongoing) 6/2020-6/2022.
- National Science Foundation. CNH2-S: Long Term Perspectives on Water Security, Food Security, and Land Management Among Pastoralists Experiencing Change. (#1924322)
 - Co-PI (\$148,769–Rosinger budget, \$748,849–total budget, Status: Ongoing), 10/2019–24
- National Science Foundation. Collaborative Research: REU Site: Past and Present Human-Environment Dynamics. (#1852406)
 - PI (\$84,621– Rosinger budget, \$384,000–total budget, Status: Ongoing), 09/2019–23
- The Wenner-Gren Foundation. Engaged Anthropology Grant: Water and Hydration in the Bolivian Amazon: Reinforcing Traditional Strategies to Reduce Water-Related Morbidities..
 - PI (\$4,980, Status: Completed), 2018-2019
- Achievement Rewards for College Scientists (ARCS) Foundation, Inc. Herz Global Impact Award, Atlanta Chapter
 - PI (\$10,000), 2014–2015. Status: Completed.
- National Science Foundation, Biological Panel, Award #1341161: Doctoral Dissertation Research Improvement Grant: Hydration Strategies, Nutrition, and Health During Lifestyle Transitions.
 - Co-PI (\$15,013), 2013–14. Status: Completed.
- The Wenner-Gren Foundation for Anthropological Research. Award #8718: Dissertation Fieldwork Grant: Hydration Strategies, Nutrition, and Health During a Lifestyle Transition in the Bolivian Amazon.
 - PI (\$19,990), 2013–14. Status: Completed.

Internal (PSU)

- PennState Outreach Center-Philadelphia. Seeding Change Grant. Causes and Consequences of social disparities in water (dis)trust and (in)security in Philadelphia, Pennsylvania
 - PI (\$5,000, Status: Ongoing), 7/2021-6/2023
- Social Science Research Institute Social Disparities grant. Causes and Consequences of social disparities in water (dis)trust and (in)security in Pennsylvania.
 - PI (\$50,000, Status: Ongoing), 3/2021-2/2023
- Center for Security and Education Research Impact grant, Penn State University. Water (In)Security: Health Impacts and Drinking Water Wells in Pennsylvania
 - Co-PI (\$25,000, status: Ongoing), 5/2020-6/2021

- Human Health and the Environment Seed Grant Program, Penn State University. Water Insecurity, Stress, and Hydration (WISH): A cross-cultural exploration of psychological and biological consequences of water-related stressors.
 - PI (\$47,355, Status: Ongoing), 2018-20
- College of Health and Human Development, Penn State University. Teaching Course Release to Support Grant Activity.
 - PI, Spring 2020 (\$7,500; Completed)
- Center for Security and Education Research Level 3 seed grant, Penn State University. Healthy houses, healthy communities: improving water management to enhance health outcomes and global security
 - Co-PI (\$15,000, status: Ongoing), 2019-2020

HONORS & AWARDS

- Ann Atherton Hertzler Early Career Professorship in Global Health, 2019-2022
- Andrew Carnegie Fellows Program Finalist, 2018
- CDC & ATSDR Honor Award Winner, Excellence in Emergency Response (Domestic): Zika Pregnancy and Birth Defects Surveillance Group, 2017
- Alexander Langmuir Award Finalist, Centers for Disease Control and Prevention, 2017
- Delta Omega, Public Health Honor's Society, University of Georgia Beta Chi Chapter, 2017
- Excellence in Research by Graduate Students Award (\$1,000), winner for Social and Behavioral Sciences, The Graduate School, UGA, 2016
- E.E. Hunt, Jr. Student Award for Outstanding Podium Presentation, Human Biology Association Meetings (\$500), 2015
- Student Member Travel Award, Human Biology Association, 2015
- Travel Grant, The Graduate School, University of Georgia (\$300), 2013 & 2014.
- University of Georgia Anthropology Department Graduate Assistantship, 2010–13, 2014–15
- E.E. Hunt, Jr. Student Award for Outstanding Poster Presentation, Human Biology Association Meetings (\$500), 2013
- Fulbright Finalist for Bolivia, 2013
- Outstanding Graduate Teaching Assistant Award, Center for Teaching and Learning, UGA, 2013
- Best Graduate Research Poster Award, Global Education Forum, UGA, 2013
- Charles Hudson Excellence in Teaching Award, Anthropology Department, UGA, 2012
- Summer Doctoral Graduate Research Fellowship, UGA (\$3,000), 2012
- Summer Travel Award, Latin American & Caribbean Studies Institute, UGA (\$1,000), 2012
- Dean's Award, The Graduate School, UGA (\$1,000), 2011
- The Graduate School Research Assistantship, UGA, 2008–2010
- Invited student. NSF Summer Field Training in Methods of Data Collection in Cultural Anthropology in Bolivia, 2009
- Frances L. Phillips Travel Scholarship, UNC Chapel Hill (\$6,000), 2007
- Phi Beta Kappa, UNC Chapel Hill, 2007
- Pearl L. Calvin Scholarship, UNC Chapel Hill, 2005
- Psi Chi, National Psychology Honors Society, UNC Chapel Hill, 2005

TEACHING EXPERIENCE

Pennsylvania State University, State College, PA

- **Instructor of record**

Fall 2021: BBH 302/AFAM 302: Diversity and Health: 105 students

Spring 2021: BBH 407: Global Health Equity: 50 students
Spring 2021: Anth 418: Medical Anthropology: 19 students
Spring 2020: BBH 407: Global Health Equity: 50 students
Fall 2019: BBH 302: Diversity and Health: 40 students
Spring 2019: Anth 497: Medical Anthropology: 7 students
Spring 2018: Anth 497: Medical Anthropology: 17 students

Course development: ANTH 418: Medical Anthropology – officially added to PSU curriculum

Koobi Fora Summer Field School, Kenya (NSF supported REU, runs through George Washington U.)

- **Core faculty and PI for Human Biology component** (2019-Present)

University of Georgia, Athens, GA

Writing-Intensive Program Teaching Assistant, August 2014–May 2015

- Taught and coached writing development skills for 2 courses, developed syllabi, graded, held office hours, and gave lectures.

Courses:

Spring 2015: Anth 1102: Introduction to Anthropology; Main instructor: Joseph Lanning

Fall 2014: Anth 4540: Health, Biology, and Culture; Main instructor Dr. Susan Tanner

University of Georgia, Athens, GA

Teaching Assistant, August 2010–May 2013

- Graded, held office hours, led review sessions, and gave lectures for 9 courses.

Courses:

Spring 2013: Anth 4640: Evolution and Ecology of Infectious Disease; Main instructor: Dr. Susan Tanner

Fall 2012: Anth 4075: Economic Anthropology; Main instructor: Dr. Bram Tucker;

Anth 3541: Anthropology of Food and Eating; Main instructor: Dr. Susan Tanner

Spring 2012: Anth 4790: Human Adaptation; Main instructor: Dr. Susan Tanner

Fall 2011: Anth 1102: Introduction to Anthropology; Main instructor: Dr. Don Nelson

Spring 2011: Anth 1102: Introduction to Anthropology; Main instructor: Jason Gonzales

Fall 2010: Anth 4540: Introduction to Medical Anthropology: Health, Biology, and Culture.

Main instructor: Dr. Susan Tanner

National Science Foundation Summer Field School in Anthropology Methods, Beni, Bolivia

Teaching Assistant, June 2010–July 2010

- Taught methods of data collection, data analysis, and presentation.

MENTORING

Graduate students (Committee member/Advisor)

- Leslie Ford (PSU Biobehavioral Health, Advisor), 2019–Present
 - Supported on NIH T-32 Social Environments and Population Health Traineeship
- Craig Berry (PSU Kinesiology, committee), 2020–Present
- Lauren Trepanier (PSU Engineering, committee), 2020–Present

Undergraduate research assistants in Water, Health, & Nutrition Laboratory/advisees

- Jason John (PSU Biobehavioral Health), 2019–Present

- Alexandra Tingley (PSU Biobehavioral Health), 2019–Present
- Kaitlyn Barnhart (PSU Biobehavioral Health), 2019–Present
- Siddhi Deshpande (PSU Biology, Honor’s thesis mentee), 2020–Present
- Tate Hamilton (PSU Biobehavioral Health), 2021–Present

Past mentorship experiences

- Post-doctoral scholars
 - Hilary Bethancourt (PSU Biobehavioral Health), 2018–2020
- Graduate students
 - Talia Shirazi (PSU Anthropology, committee), 2018–2021
 - Zane Swanson (Duke Univ. Evolutionary Anthropology, committee), 2020–2021
 - Sixtus Aguree (PSU PhD Nutrition student), 2017–2019
- Undergraduate research assistants/advises
 - Sara Caldana (PSU Biobehavioral Health), 2018–2019
 - Alysha Kelyman (PSU Biobehavioral Health), 2018–2020
 - Celine Latona (PSU Biobehavioral Health), 2018–2020 -- MPH
 - Kaylee Lopez (PSU Biobehavioral Health), 2020–2021, BBH Student Marshall
- Graduate-Undergraduate Mentor Program, UGA anthropology, 2013–2015
 - Onyale Donloe; Millie Foster; Abigail Willis
- Graduate Recruitment Opportunities Mentor, UGA Graduate School, 2011–2013
 - Janet Lewis

INVITED WORKSHOPS (fully funded)

Climate, Migration, and Water Insecurity. University of Miami, March 5-6, 2020

Coupled Natural Human Systems NSF Planning Workshop. Lincoln Nebraska Dec. 5-8, 2019.

COMPASS Science Communication Workshop (one of 20 invited faculty). Hosted by the Institutes of Energy and the Environment. Penn State. October 18-19, 2018.

Household Water Insecurity Indicators UK Workshop. Invited Participant. University of the West of England. September 14-15, 2018.

Setting the National Agenda on Water Intake and Sugar-Sweetened Beverage Intake for 0-5 year olds. Healthy Eating Research; Robert Wood Johnson Foundation. Invited Participant. Washington, DC. May 17-18, 2018.

Household Water Insecurity Experiences Workshop on Water sharing. Invited Participant. Arizona State University. Feb 27-Mar. 1, 2018.

Household Water Insecurity Experiences Scale (HWISE) Workshop. Invited Participant. Northwestern University. August 9-11, 2017.

PRESENTATIONS (Invited and conference)

*Cancelled due to COVID19

Asher Rosinger. Panelist on HWISE NOW webinar on Drinking Water Quality and HWISE: Debates, Issues, Challenges 5/25/2021: <https://www.youtube.com/watch?v=AtMbmJslphg>

Asher Rutgers. Water insecurity and Human Biology: Environmental Exposures, Nutritional Adaptations, and Health Implications. Rutgers University. Center for Human Evolutionary Studies Colloquium. 4/30/2021

Asher Rosinger. The Embodiment of Water Insecurity. Millenium Café, PSU 4/13/2021

Asher Rosinger. Thirst perception is associated with ambient temperature and season of birth, but not hydration status: Data from two small-scale societies in extreme thermal environments. Human Biology Association. March 30, 2021

L Ford, HJ Bethancourt, ZS Swanson, R Nzunza, E Ndiema, D Braun, H Pontzer, **AY Rosinger.** Coping strategies for water insecurity and their relation to dehydration, diarrhea, and injury. Human Biology Association. March 30, 2021

Swanson, Z. S., Bethancourt, H., Saunders, J., Nzunza, R., Ndiema, E., Braun, D. R., **Rosinger AY,** Pontzer H. (2021). Distinct patterns of early childhood growth represent variation in life history strategy among Daasanach pastoralists living in Northern Kenya. *American Journal of Physical Anthropology*, 174(S71), 101-102. doi:10.1002/ajpa.24262

Asher Rosinger. Built environments and water insecurity in extreme thermal conditions. AAAS Annual Meeting. Online. 2/8/2021

^Ford L, **Asher Rosinger.** Water borrowing, water insecurity, and psychosocial stress. UNC Water and Health Conference. Online. 10/26/2020

Asher Rosinger. Disparities in tap and bottled water consumption in the US. Water Talk webinar; Arizona State University. Online. 7/1/2020

Asher Rosinger. Water Physiology from an Evolutionary Perspective. Hydration for Health 2020 Conference keynote. Online. 6/24/2020

Asher Rosinger. Water insecurity and health and human biology in lowland Bolivia and northern Kenya. Nutrition Live Online 2020 plenary. American Society of Nutrition. 6/4/2020.

***Asher Rosinger,** Latona C, John J, Kelyman A, Pauley A, Leonard K, Hohman E, McNitt K, Downs D, Savage JS. Hydration status changes during pregnancy may have implications for birth weight: A longitudinal, randomized-control trial. *Am J Hum Bio* 2020 Apr 1 (Vol. 32).

***Bethancourt H,** Swanson Z, Huanca T, Conde E, Saunders J, Dhanasekar S, Young S, Nzunza R, Pontzer H, **Rosinger A.** Prevalence and predictors of dehydration across distinct water insecure contexts: The Water Insecurity, Stress, and Hydration (WISH) study among 'Tsimane' in lowland Bolivia and Daasanach in northern Kenya. *Am J Hum Bio* 2020 Apr 1 (Vol. 32).

***Swanson ZS,** Bethancourt H, Saunders J, Dhanasekar S, Nzunza R, **Rosinger AY,** Pontzer H. The effect of lifestyle variation on health and life history in Daasanach pastoralists of Northern Kenya. *Am J Hum Bio* 2020 Apr 1 (Vol. 32).

***Asher Y Rosinger,** Hilary Bethancourt, Zane S Swanson, Jessica Saunders, Shiva Dhanasekar, W Larry Kenney, Sera L Young, Rosemary Nzunza, Herman Pontzer. Dam health effects: Drinking

water salinity is a key risk factor for hypertension and dilute urine among Daasanach pastoralists in Northern Kenya. American Association of Physical Anthropology 90th annual meeting 2020

*^Ford, L. B., Bethancourt, H., Swanson, Z., Young, S., Nzunze, R., Pontzer, H., & **Rosinger, A. Y.** (2020, March). Human biology among daasanach pastoralists in northern kenya: Water insecurity, water borrowing, and psychosocial stress. *Am J Phys Anth* (Vol. 171, pp. 88-88).

*Swanson, Z. S., Bethancourt, H., Saunders, J., Nzunza, R., **Rosinger, A. Y.**, & Pontzer, H. (2020, March). Distinct early growth trajectory among Daasanach pastoralists of Northern Kenya. *Am J Phys Anth* (Vol. 171, pp. 278-278).

*Saunders, J., Swanson, Z. S., Bethancourt, H., Dhanasekar, S., Nzunza, R., **Rosinger, A. Y.**, & Pontzer, H. (2020, March). Human Biology and the Koobi Fora Field School: New Work with the Daasanach, a Small-Scale Pastoralist Population. *Am J Phys Anth* (Vol. 171, pp. 248-248).

Asher Rosinger. The toll of water insecurity on health and human biology: Environmental exposures, nutritional adaptations, and chronic health implications. *Bio Anthropology Colloquium*, Northwestern University. Feb 21, 2020.

Asher Rosinger. Water security, water salinity, and chronic health implications among Pastoralists in Northern Kenya. Population Research Institute Brown Bag, Penn State. Jan 21, 2020.

Asher Rosinger. Long-term perspectives on water security, food security, and land management among Pastoralists. WEF Nexus Africa, Penn State. Jan 9, 2020.

Asher Rosinger. Bio-behavioral variation in human water needs: How adaptations, early life environments, and the life course affect body water homeostasis. *Nutrition Colloquium*, Penn State University. Oct 28, 2019.

Asher Rosinger, Alexandra Brewis, Amber Wutich, Wendy Jepson, Justin Stoler. Water Borrowing is Widely Practiced, and Associated with Market, Infrastructure, and Public Health Failures Globally. 8th annual Water and Health Conference. Chapel Hill, NC, October 2019.

Asher Rosinger. Biobehavioral Variation in Human Water Needs and Body Water Homeostasis (**Plenary**). Human Biology Association 44th annual Meeting. Cleveland, OH, March 27, 2019.

Asher Rosinger, Alex Brewis. Life and Death: Human Biology of water (**Introduction to Plenary**). Human Biology Association 44th annual Meeting. Cleveland, OH, March 27, 2019.

Asher Rosinger. Biobehavioral Variation in Human Water Needs and Body Water Homeostasis. *Bio Anthropology Colloquium*, Yale University. Jan 17, 2019.

Asher Rosinger, Sascha Ellington, Janice Perez-Padilla, Samantha Olson (presentor), Regina Simeone, Caitlin Pedati, Betsy Schroeder, Jorge L. Munoz-Jordan, Laura E. Adams, Romeo Galang, Miguel Valencia-Prado, Candimar Colón, Mary Goodwin, Dana Meaney-Delman, Lyle Petersen, Denise Jamieson, Carmen Deseda, Margaret Honein, Brenda Rivera-García, Carrie Shapiro-Mendoza. Evaluating differences in Zika virus diagnostic test results by specimen type among pregnant women during the Zika virus outbreak, Puerto Rico 2016. 67th Annual Meeting of the American Society of Tropical Medicine and Hygiene. New Orleans, LA. October 30, 2018.

Asher Rosinger. Chicha as Water: Longitudinal Examination of Changes in Traditional Fermented Beer Consumption Among Forager Horticulturalists in the Bolivian Amazon. British Academy of the Humanities and Social Sciences. Conference on Alcohol and Humans: A long and social affair. London, Britain. September 13, 2018.

Asher Rosinger. Health Perspectives on Water Insecurity in the Global South. International Waters Network Webinar: April 26, 2018. <https://www.youtube.com/watch?v=iM4SVxnQ-g0&feature=youtu.be&t=1267>

Asher Rosinger, Jeff L. Sands, Susan Tanner. Is age-related decline in urine concentrating ability universal? Hydration biomarkers from the US and Bolivian Amazon. Human Biology Association 43rd annual Meeting. Austin, TX, April, 2018.

Asher Rosinger, Sera L. Young, Shalean M. Collins, Syeda R. Haider, Pallavi Mishra, Honest T. Nagai, Mnyeshi Petro, Godfred O. Boateng And Jennifer A. Downs. *Schistosoma haematobium*, but not *Schistosoma mansoni*, increases urine specific gravity in a sample of rural Tanzanian women, 2016. American Association of Physical Anthropology 88th annual Meeting. Austin, TX, April, 2018.

Asher Rosinger. Who drinks the tap water? Disparities in tap and bottled water consumption among US adults, 2011–2014. Water Working Group Webinar. March 2018.

Asher Rosinger. Who drinks the tap water? Disparities in tap and bottled water consumption among US adults, 2011–2014. 6th annual Water and Health Conference: Where Science Meets Policy, Chapel Hill, NC, October 2017.

Asher Rosinger. Water Insecurity after a Historic Flood: Diarrhea and Dehydration in the Bolivian Amazon. Global Household Water Insecurity Workshop, Northwestern University, August 2017.

Asher Rosinger, and co-authors. Evaluating the utility of rRT-PCR testing in whole blood compared to other specimens and IgM testing to optimize the diagnosis of Zika Virus infection among asymptomatic pregnant women – Puerto Rico, 2016. 66th Annual EIS Conference at the Centers for Disease Control and Prevention, GA, USA, April 2017.

Asher Rosinger, Margaret Carroll, Cynthia Ogden. Decreasing trends in Total Cholesterol, Triglycerides, and Low-Density Lipoprotein in U.S. adults, 1999–2014. Human Biology Association 42nd Annual Meeting. New Orleans, LA. April, 2017.

Asher Rosinger. The role of nutritional adaptations, lifestyle transitions, and weight status in human water needs. Department of Biobehavioral Health, The Pennsylvania State University, February 2017.

Asher Rosinger. Two Minute Update: Evaluating the diagnostic utility of rRT-PCR testing on whole blood for the diagnosis of Zika Virus infection among pregnant women, Puerto Rico October 1 – November 5, 2016. Tuesday Morning Seminar, CDC. Atlanta, GA. November, 2016.

Janice Pérez-Padilla, Kyle Ryff, Roosecelis Brasil Martines, Alma Martínez-Quñones, Romeo R. Galang, **Asher Y. Rosinger,** Mary Goodwin, Regina Simeone, Carrie K. Shapiro-Mendoza, Denise Jamieson, Margaret Honein, Cynthia Goldsmith, Julu Bhatnagar, Brenda Rivera-García & Miguel

Valencia-Prado. Zika Virus Infection and Pregnancy Outcomes in Puerto Rico. ID Week 2016, New Orleans, LA. October, 2016.

Asher Rosinger. Nutritional Assessment: Anthropometry and the Nutrition Transition. Nutritional Epidemiology. George Washington University, Washington, DC. September 2016.

Asher Rosinger. Tales from the field: Two deployments with the Zika Active Pregnancy Surveillance System in Puerto Rico. DHANES Division Meeting July 2016.

Asher Rosinger, Hannah Lawman, Lara Akinbami, and Cynthia Ogden. The role of obesity on water intake and hydration status in U.S. adults: 2009-2012. 65th Annual EIS Conference at the Centers for Disease Control and Prevention, GA, USA, May 2016.

Asher Rosinger, Hannah Lawman, Lara Akinbami, and Cynthia Ogden. The role of obesity on water intake and hydration status in U.S. adults: 2009-2012. American Association of Physical Anthropology 86th annual Meeting. Atlanta, GA, April, 2016

Asher Rosinger. The role of obesity in the relationship of water intake and urine osmolality. Tuesday Morning Seminar. CDC. Atlanta, GA. March, 2016.

Asher Rosinger. How to conduct an outbreak investigation: a case study. Nutritional Epidemiology. George Washington University, Washington, DC. September 2015.

Asher Rosinger. Heat and hydration status: Predictors of repeated measures of urine specific gravity among Tsimane' adults in the Amazon. Human Biology Association 40th Annual Meeting. St. Louis. ***Winner best podium presentation.** March 2015.

Asher Rosinger. Hydration strategies, nutrition, and health during a lifestyle transition in the Bolivian Amazon. Department of Anthropology, University of Florida, February 2015.

Asher Rosinger. Hydration strategies, nutrition, and health during a lifestyle transition in the Bolivian Amazon. School of Anthropology, University of Arizona, January 2015.

Asher Rosinger, Susan Tanner, William R Leonard, and TAPS Study Team. Setting nutritional pathways: The effects of household market food expenditures on body composition among rural Bolivian children. American Anthropological Association 113th Annual Meeting, Washington, DC, December 2014.

Asher Rosinger. Water quality, decision-making, and disease before and after a flood: A natural experiment among an indigenous population in the Bolivian Amazon. 3rd annual Water and Health Conference: Where Science Meets Policy, Chapel Hill, NC, October 2014

Asher Rosinger. Nutrition, disease, and hydration during a lifestyle transition in the Bolivian Amazon. Department of Anthropology, Yale University, New Haven, CT, October 2014.

Asher Rosinger. AnthroHacking: Tips for Conducting Fieldwork. Department of Anthropology, University of Georgia, Athens, GA, November 2013.

Asher Rosinger, Susan Tanner. Water from fruit or the river? Examining hydration strategies among Tsimane' adults in the Bolivian Amazon. Human Biology Association 38th Annual Meeting. Knoxville, TN. ***Winner best poster presentation.** March 2013.

Asher Rosinger, Susan Tanner, William Leonard, and TAPS Bolivia Research Team. Precursors to Overnutrition: The Effects of Household Market Food Expenditures on Measures of Body Composition Among Tsimane' Adults in Lowland Bolivia. Global Education Forum: Obesity, Food Security, and Nutrition in a Global Context. UGA, Athens, GA. ***Winner best Poster presentation.** March 2013.

Asher Rosinger. Water intake strategies and disease in the Bolivian Amazon. One Health Symposium: Breaking barriers and crossing-scales. University of Georgia, Athens, GA 2013.

Susan Tanner, **Asher Rosinger**, Ricardo Godoy, William Leonard, Tom McDade, Viki Reyes-Garcia, and Tomas Huanca. Functional consequences of adult malnutrition and parasitic infection among the Tsimane' of lowland Bolivia. Human Biology Association 36th Annual Meeting, Minneapolis, MN. March 2011.

Asher Rosinger. Vulnerability, perception, and water quantity: An assessment of childhood diarrhea in Lowland Bolivia. American Anthropological Association 108th Annual Meeting, New Orleans, LA. November 2010.

RESEARCH EXPERIENCE

Water, Health, and Nutrition Laboratory, Pennsylvania State University

Founder | Director, July 2017–present

- Laboratory analyses of hydration status
- Water insecurity and water quality projects
- Secondary data analysis

Household Water Insecurity Experiences Scale Consortium

Site PI, August 2017–present

- Beni, Bolivia

Koobi Fora Research Training Program, Lake Turkana, Kenya

Co-PI, July 2017–present

- Human Biology Project PI

Tsimane' Amazonian Panel Study, Beni, Bolivia

Senior Researcher, June 2009–present

- Hydration status and water insecurity component PI
- Perception of thirst and hydration; Dietary change and effects on weight and adiposity

Centers for Disease Control and Prevention, Puerto Rico

EIS officer, 2015–2017

- Zika Response with the Pregnancy and Birth Defects Task Force, Puerto Rico. 3 Deployments:
 - March, 2016: Co-led Epi-Aid 2016-021: Enhanced Surveillance of Pregnancy and Infant Outcomes following Zika Virus Infection in Puerto Rico

- Piloted and tested feasibility of Zika Active Pregnancy Surveillance System (ZAPSS) in 3 health regions in Puerto Rico.
- June–July, 2016: Served as surveillance site coordinator and liaison to Puerto Rico Department of Health
 - Expanded ZAPSS to island wide coverage; Developed training materials and operations document, integrated long-term PRDH staff into surveillance system.
- October–November, 2016: Led Epi-Aid 2017-001: Evaluating the Diagnostic Utility of rRT-PCR-testing on Whole Blood for the Diagnosis of Zika Virus Infection among Pregnant Women in Puerto Rico
 - Enrolled 572 pregnant women into the investigation.

The University of Georgia, Beni, Bolivia

NSF and Wenner-Gren Study Principal Investigator, July 2012–June 2014

- Conducted a longitudinal study in 2 communities in Beni, Bolivia regarding water intake strategies, hydration, water quality, and gastrointestinal illness.
- Collaborated with local Bolivian environmental health and parasitological laboratories to assess water quality analysis and fecal sample analysis.
- Managed, trained, and arranged logistics for an international field team of four, including a Bolivian MD, indigenous translator, and US research assistant.

Environmental Protection Agency, National Exposure Research Laboratory, Athens GA

Student Intern/volunteer, January 2012–May 2012

- Conducted water quality analysis investigating the effects of agricultural runoff in watersheds using different land management techniques.
- Collected and analyzed water samples for salmonella, E. coli, enterococci, total coliforms, and turbidity; DNA extraction methods, and data analysis.

National Science Foundation Field School in Anthropological Methods, Beni, Bolivia

Field Assistant, Student, and Researcher, June–August 2009, 2010

- Taught sessions on data collection and data analysis for PhD anthropology students.
- Helped coordinate logistics for team of 20.
- Conducted qualitative interviews regarding cultural views of water and diarrheal illness.
- Conducted field surveys, time allocation, participant observation, and qualitative interviews.

PEER-REVIEW ACTIVITIES

Editorial responsibilities

- American Journal of Human Biology, Guest editor for Special Issue Extreme climatic events and human biology and health, 8/2021-Present
- American Journal of Human Biology, Co-Guest editor for Special Issue Water and Human Biology (January/February issue, 2020)

Ad hoc reviewer

- Academic Pediatrics (8/31/2021)
- American Journal of Clinical Nutrition (2/2021)
- American Journal of Human Biology (*7; 6/24/2021; 7/29/2021)
- American Journal of Physical Anthropology (*2)
- BMC Public Health
- BMJ Open (4/9/21)

- British Journal of Nutrition
- Contemporary Clinical Trials (11/16/2020)
- Ecology of Food and Nutrition
- EcoHealth
- Ecology and Society (7/29/2021)
- European Journal of Nutrition (*2)
- Healthy Eating Research Rapid Report on lead in school water
- Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services Global Assessment
- International Journal of Primatology
- Journal of Water and Health
- Nature (4/25/2021)
- Nutrients (*5)
- Nutrition Journal
- Obesity
- Pediatrics
- Public Health Nutrition
- Sleep Health
- Social Science & Medicine (*3)
- Southeastern Geographer (5/26/2021)
- Water Security (12/23/2020)
- WHO Bulletin
- WIRES Water (*2)
- Cambio Local – Cambio Global: Radiografía del Proceso de Cambio en la Sociedad Tsimané?, Amazonia Boliviana (edited volume)

SERVICE

Pennsylvania State University

- Experiential Programs Admissions Committee, Department of Biobehavioral Health (BBH), 2021-Present
- Diversity, Equity, and Inclusion Committee, BBH, (committee member, 2018-2021)
- Search Committee, Rural Health Disparities Postdoc, BBH, 5/21-7/21
- Panelist for Sustainability Institute's film screening of the Water Front, PSU 3/22/2021
- Rural Health Disparities Job Search Committee, BBH, 2020-2021
- Reviewer of Graduate Student Travel Grants for Global Programs, PSU (Fall 2019)
- Moderator for Families and Food 27th Annual Symposium, PSU (10/22/2019)
- Web Committee, BBH (2017-2019; Committee chair 2018-2019)
- Judge for Rapid 90 competition, BBH (3/21/18)

External Service

- Advisory board, NSF funded cultural anthropology Methods Program, 3/2021-present
- Steering Committee, NSF funded HWISE-RCN, 2/2021-present
- Koobi Fora Field School Program Committee (application review), 11/2019-present
- HWISE RCN (NSF) Health and Human Biology Activity Hub Lead, 8/2019-present
- Program committee, abstract reviews, session chairing for 45th and 46th annual meeting of the Human Biology Association, 9/2019-present

- Plenary session organizer of “Life and Death: The Human Biology of Water”, 44th annual meeting of the Human Biology Association, 4/2019
- Scientific Advisory Committee: Developing a Strategic Research Agenda for Eliminating Consumption of Sugar-Sweetened Beverages (SSB) and Increasing Water Use in Early Childhood. Healthy Eating Research, Robert Wood Johnson Foundation, Jan–Aug, 2018
- Contributor and co-editor at Anthrohacker.com, website devoted to giving practical field advice for researchers and anthropologists, 2014–present
- Chair for Human Demography and Epidemiology Session: American Association of Physical Anthropology Annual Meeting, April 14, 2018.
- Breakout session co-lead: Analyzing secondary datasets for human biology research: Human Biology Association 42nd Annual Meeting, April 2017.
- Panel discussant: Careers outside academia for human biologists. Human Biology Association 41st Annual Meeting, April, 2016
- Moderator *2, Session: “Understanding and analyzing data from the National Health and Nutrition Examination Survey (NHANES): Overview and basic analyses”. AND “Overview of the National Health and Nutrition Examination Survey (NHANES)”. National Conference on Health Statistics, Washington, D.C., August 2015
- A Day in the Field: Anthropological Field Methods Expo, Biological Anthropology Table, UGA, 2010
- Vice President, Anthropology Graduate Student Organization (AGSO), 2009
- Manuscript Editor, Ecological and Environmental Anthropology Journal, 2008–2009

LANGUAGES

- English; Spanish

PROFESSIONAL MEMEBERSHIPS

- American Anthropological Association
- Human Biology Association
- American Association of Physical Anthropology
- The Epidemic Intelligence Service Alumni Association
- Water Working Group
- National Drinking Water Alliance

SELECTED MEDIA COVERAGE/SCIENCE COMMUNICATION

- **National Geographic** feature story “The Evolution of Diet” in September 2014 edition: <http://www.nationalgeographic.com/foodfeatures/evolution-of-diet/>
- **National Geographic** “We Are What We Eat: Foraging in the Amazon Rainforest” October 15, 2014: <http://proof.nationalgeographic.com/2014/10/15/we-are-what-we-eat-foraging-in-the-amazon-rainforest/>
- **CBS News** “Are Americans drinking enough water every day?” April, 26, 2016: <http://www.cbsnews.com/news/are-americans-drinking-enough-water-every-day/>
- **HealthDay News** “Americans Getting Adequate Water Daily, CDC Finds” April 26, 2016: <https://consumer.healthday.com/vitamins-and-nutrition-information-27//food-and-nutrition-news-316/americans-getting-adequate-water-per-day-cdc-finds-710354.html>
- **Public News Service** “Americans Need to Step Up Their Water Intake” April 26, 2016: <http://www.publicnewsservice.org/2016-04-26/health-issues/americans-need-to-step-up-their-water-intake/a51608-1>

- **WCLU radio** “CDC Study Shows Importance of Hydration-Especially in Seniors” May 4, 2016: <http://wcluradio.com/cdc-study-shows-importance-of-hydration-especially-in-seniors/>
- **NPR** “CDC: 157 Pregnant Women in The U.S. Have Tested Positive For Zika“ May 20, 2016: <http://www.npr.org/sections/health-shots/2016/05/20/478835112/cdc-is-monitoring-157-pregnant-women-in-the-u-s-with-zika-virus>
- **BuzzFeed News** “CDC Widens Warnings About Zika and Pregnancy” May 20, 2016: https://www.buzzfeed.com/danvergano/the-cdc-is-now-watching-nearly-300-pregnant-women-for-zika?utm_term=.hvY8LZ98XD#.gw7qG6vqdW
- **Washington Post** “Zika is spreading explosively in Puerto Rico, report says” July 29, 2016: <https://www.washingtonpost.com/news/to-your-health/wp/2016/07/29/zika-is-spreading-explosively-in-puerto-rico-report-says/>
- **FiveThirtyEight** “Zika has made its way to Florida mosquitoes” July 29, 2016: <http://fivethirtyeight.com/features/zika-has-made-its-way-to-florida-mosquitoes/>
- **Vox** “Florida now has a few cases of Zika. Puerto Rico has a widespread epidemic” July 29, 2016: <http://www.vox.com/2016/7/29/12324744/zika-florida-puerto-rico-numbers>
- **New York Times** “Zika Cases in Puerto Rico Are Skyrocketing” July 30, 2016: http://www.nytimes.com/2016/07/31/health/zika-virus-puerto-rico.html?_r=0
- **Reuters Health** “Americans’ cholesterol, triglyceride levels continue to fall” November 30, 2016: <http://www.livescience.com/57020-cholesterol-level-trends.html#sthash.UHCVPaSC.gbpl>
- **CBS News** “Big change seen in Americans’ cholesterol levels” November 30, 2016: <http://www.cbsnews.com/news/americans-cholesterol-levels-keep-falling/>
- **LiveScience** “Why Americans Cholesterol Levels Are Improving” November 30, 2016: <http://www.livescience.com/57020-cholesterol-level-trends.html#sthash.UHCVPaSC.gbpl>
- **MedPage Today** “CDC Analysis: National Lipid Profile Improving” December 1, 2016: <http://www.medpagetoday.com/cardiology/dyslipidemia/61768>
- **Medscape** “Is Diet Outpacing Pills in Driving Down US Lipid Levels?” December 2, 2016: <http://www.medscape.com/viewarticle/872665>
- **CNN** “Study: 30% of kids have two or more sugary drinks a day” January 26, 2017: <http://edition.cnn.com/2017/01/26/health/sugary-drinks-children-cdc-study/index.html>
- **Washington Post** “Americans were making a lot of progress cutting back on sugary drinks. Now that’s stopped” January 26, 2017: https://www.washingtonpost.com/news/wonk/wp/2017/01/26/americans-were-making-a-lot-of-progress-cutting-back-on-sugary-drinks-now-thats-stopped/?utm_term=.2f964e965053
- **StatNews** “Trend of Americans giving up sugary drinks seems to have gone flat” January 26, 2017: <https://www.statnews.com/2017/01/26/soda-sugary-drinks/>
- **Dailymail** “We just cannot quit soda, data show” January 26, 2017: <http://www.dailymail.co.uk/health/article-4160630/Trend-Americans-giving-sweet-drinks-flat-lined.html>
- **NCHS Blog** “Sugar-sweetened Beverage Consumption in U.S.” January 26, 2017: <https://nchstats.com/2017/01/26/sugar-sweetened-beverage-consumption-in-u-s/>
- **Business Insider** “A shocking number of all the calories you consume in a day come from sugary drinks” January 26, 2017: <http://www.businessinsider.com/how-much-of-our-daily-calories-come-from-sugar-sweetened-drinks-2017-1>

- **Los Angeles Times** “Microcephaly or other birth defects seen in 5% of pregnancies affected by Zika, CDC” June 08, 2017: <http://www.latimes.com/science/sciencenow/la-sci-sn-zika-birth-defects-20170608-htmlstory.html>
- **Northwestern University Journalism** “As half the world suffers from water shortages, researchers gather to meet the threat”, August 29, 2017: <http://climatechange.medill.northwestern.edu/2017/08/29/as-half-the-world-suffers-from-water-shortages-global-researchers-gather-to-meet-the-threat/>
- **Georgia Magazine** “Disease Detective”, Alumni Profile in Fall 2017 edition, page 50: <https://ugamagazine.uga.edu/issue/fall-2017>
- **Penn State News** “Black, Hispanics less likely to drink tap water, more likely to buy bottled water” February 23, 2018: <http://news.psu.edu/story/505759/2018/02/23/research/black-hispanics-less-likely-drink-tap-water-more-likely-buy-bottled>
- **Medical Xpress** “Black, Hispanics less likely to drink tap water, more likely to buy bottled water” February 26, 2018: <https://medicalxpress.com/news/2018-02-black-hispanics-bottled.html>
- **The Journal of Blacks in Higher Education** “Academic study finds a large racial gap in trust of public water supplies” March 5, 2018: <https://www.jbhe.com/2018/03/academic-study-finds-a-large-racial-gap-in-trust-of-public-water-supplies/>
- **The Washington informer** “Racial gap evident in water consumption: Study” March 9, 2018: <http://washingtoninformer.com/racial-gap-evident-in-water-consumption-study/>
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