

ERIKA AUSTHOF, PhD MPH
barrette@arizona.edu | 520 626 3507
[ORCID](#) [LinkedIn](#)

EDUCATION

Doctor of Philosophy, Epidemiology University of Arizona, 2023
Minor: Management Information Systems

Dissertation Title: Exploring the Effect of Precipitation and Drought on *Campylobacter* and *Salmonella* Infections in the Southwest United States

Advisor: Kristen Pogreba-Brown, PhD MPH

Certificate in College Teaching University of Arizona, 2021

Technology of Participation Facilitator Certificate Institute of Cultural Affairs, 2016

Master of Public Health, Epidemiology University of Arizona, 2015

Bachelor of Science, Microbiology University of Arizona, 2012

EMPLOYMENT

Assistant Research Professor 1/2024 – Present
University of Arizona, Department of Epidemiology

Principal Consultant and Founder 1/2022 – Present
Aengle Consulting LLC

Senior Epidemiologist 1/2016 – 12/2023
University of Arizona, Department of Epidemiology

Co-Instructor – Student Aid for Field Epidemiology Response 1/2016 – 12/2020
University of Arizona, SAFER

Climate Change Research Assistant 1/2015 – 9/2016
Pima County Health Department

Instructor – Basic Epidemiology 1/2016 – 4/2016
Arizona School of Acupuncture and Oriental Medicine

HONORS AND AWARDS

Best Student Oral Presentation, 1 st Place AMS Conference	2023
Team Award for Excellence, UArizona College of Public Health	2022
Roots for Resilience Data Science Research Fellowship, UArizona	2022
Graduate and Professional Student Council Travel Grant	2022
Excellence in Original Research Award, 2 nd Place UArizona College of Public Health	2022

Delta Omega Public Health Honorary	2021
Staff Award for Excellence Nominee, UArizona College of Public Health	2020

SERVICE AND OUTREACH

National/International

American Meteorological Society, Board of Environmental Health Student Board Member	2020 – 2023
Council of State and Territorial Epidemiologists Subcommittees: Disaster Epidemiology, Climate Change, Infectious Disease	2014 – Present
American Industrial Hygiene Association	2012 – 2014
American Chemical Society	2012 – 2016
American Physician Scientists Association	2014 – 2015
American Biological Safety Association	2014 – 2016

Local/State

Foodborne Taskforce Member – Arizona Department of Health Services	2021 – Present
Bridging Climate Change and Public Health – Maricopa County Health Department	2018 – 2020

University Committees and Workgroups

COVID Vaccine POD – Volunteer Staffing and Management	1/2021 – 3/2021
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College Committees

MEZCOPH College Environment Committee	2016 – 2020
MEZCOPH Graduate Student Ambassador	2020 – 2023

Editorial Activities

Ad-hoc Manuscript Reviewer:

- Pedagogy in Health Promotion
- International Journal of Biometeorology

PUBLICATIONS

Submitted Articles, In Review

1. **Austhof E**, Warner S, Helfrich K, Pogreba-Brown K, Brown HE, Klimentidis Y, et al. Exploring the association of weather variability on *Campylobacter* - a systematic review. Environ Health Perspect.
2. **Austhof E**, Brown HE, White AE, Jervis RH, Weiss J, Shrum Davis S, et al. Association of precipitation events, drought, and animal operations on *Campylobacter* incidence in the Southwest US, 2009-2021. Env Research.
3. Boyd K, Condrey K, Hernandez AR, **Austhof E**, Dehnbostel J, Hoffman S, et al. Ocular Toxoplasmosis Infection Leading to Uveitis and or Lesions - A Systematic Review. Pathogens.

Refereed Journal Articles

1. Brown HE, **Austhof E**, Luz PM, Ferguson DB. Economics, health, or environment: What motivates individual climate action? PLOS Clim. 2023;2(8): e0000177.
<https://doi.org/10.1371/journal.pclm.0000177>
2. Chambers S, Brown HE, Keith L, **Austhof E**. Development of a geographic human heat balance equation to support public health analyses: An Arizona urban sun corridor application. Remote Sensing App. 2023;32. <https://doi.org/10.1016/j.rsase.2023.101009>

3. Barraza L, **Austhof E**, Khan SM, Kelley CP, Shilen A, Ernst K, et al. Differences in Perceptions of Individual and Government-Level COVID-19 Prevention Measures Based on Vaccine Willingness. *J Health Care L & Pol'y*. 2023;26(87).
4. Jacobs ET, Catalfamo CJ, Colombo PM, Khan SM, **Austhof E**, Cordova-Marks F, et. al. Pre-existing conditions associated with post-acute sequelae of COVID-19. *Journal of Autoimmunity*. 2023 Jan 6:102991. <https://doi.org/10.1016/j.jaut.2022.102991>
5. Pogreba-Brown K, Boyd K, Schaefer K, **Austhof E**, Armstrong A, Owusu-Domney A, et. al. Complications Associated with Foodborne Listeriosis: A Scoping Review. *Foodborne Pathogens and Disease*. 2022;19(11):725-743. <https://doi.org/10.1089/fpd.2022.0012>
6. **Austhof E**, Brown HE. Global Warming's Six MTurks: A Secondary Analysis of a US-Based Online Crowdsourcing Market. *Int J Environ Res Public Health*. 2022 Jul 7;19(14):8320. <http://doi.org/10.3390/ijerph19148320>
7. **Austhof E**, Bell ML, Riddle MS, Catalfamo CL, McFadden C, Cooper K, Scallan E, Jacobs ET, Pogreba-Brown K. Persisting gastrointestinal symptoms and post-infectious irritable bowel syndrome following SARS-CoV-2 infection: results from the Arizona CoVHORT. *Epidemiol Infect*. 2022 Jul 8;150:e136. <http://doi.org/10.1017/S0950268822001200>
8. Anderson EJ, Ernst K, Garcia DO, Lopez E, Pogreba Brown K, **Austhof E**, et al. Knowledge of Sexual Transmission of Zika Virus Among Women Who Are Pregnant or Intend to Become Pregnant, Arizona, 2017. *Public Health Reports*. 2021 Apr 2:333549211006986. <https://doi.org/10.1177/00333549211006986>
9. Khan SM, Farland LV, Catalfamo CJ, **Austhof E**, Bell ML, Chen Z, et al. Elucidating symptoms of COVID-19 illness in the Arizona CoVHORT: a longitudinal cohort study. *BMJ Open*. 2022 Jan 1;12(1):e053403. <http://dx.doi.org/10.1136/bmjopen-2021-053403>
10. Schaefer K, **Austhof E**, Boyd K, Armstrong A, Hoffman S, Pogreba-Brown K. Septicemia Due to *Listeria monocytogenes* Infection: A Systematic Review and Meta-Analysis. *Foodborne Pathogens and Disease*. 2021 Dec 9. <http://doi.org/10.1089/fpd.2021.0046>
11. Keith L, Iroz-Elardo N, **Austhof E**, Sami I, Arora M. Extreme Heat at Outdoor COVID-19 Vaccination Sites. *The Journal of Climate Change and Health*. 2021. <https://doi.org/10.1016/j.joclim.2021.100043>
12. **Austhof E**, Brown HE. Flexibility and partnerships perceived as supportive of dual hazard response: COVID-19 and Heat Related Illness, Summer 2020. *The Journal of Climate Change and Health*. 2021 Oct 1;4:100068. <https://doi.org/10.1016/j.joclim.2021.100068>
13. **Austhof E**, Boyd K, Schaefer K, McFadden C, Owusu-Domney A, Hoffman S, et al. Scoping Review of Toxoplasma Postinfectious Sequelae. *Foodborne Pathogens and Disease*. 2021 Oct 1;18(10):687-701. <http://doi.org/10.1089/fpd.2021.0015>
14. Pogreba-Brown K, **Austhof E**, Tang X, Trejo MJ, Owusu-Domney A, Boyd K, Armstrong A, Schaefer K, Bazaco MC, Batz M, Riddle M. Enteric Pathogens and Reactive Arthritis: Systematic Review and Meta-Analyses of Pathogen-Associated Reactive Arthritis. *Foodborne Pathogens and Disease*. 2021 Sep 1;18(9):627-39. <https://doi.org/10.1089/fpd.2020.2910>
15. Pogreba-Brown K, **Austhof E**, Rosa-Hernandez A, McFadden C, Boyd K, Sharma J, et al. Training and Incorporating Students in SARS-CoV-2 Case Investigations and Contact Tracing. *Public Health Reports*. 2021 Mar;136(2):154-60. <https://doi.org/10.1177/0033354920974664>
16. Catalfamo CJ, Heslin KM, Shilen A, Khan SM, Hunsaker JR, **Austhof E**, et al. Design of the Arizona CoVHORT: A Population-Based COVID-19 Cohort. *Frontiers in Public Health*. 2021 Feb 10;9:21. <https://doi.org/10.3389/fpubh.2021.620060>
17. **Austhof E**, Schaefer K, Faulkner J, Bach L, Riddle M, Pogreba-Brown L. Knowledge and practices of primary care physicians or general practitioners treating post-infectious irritable bowel syndrome. *BMC Gastroenterology*. 2020;20(1-6). <https://doi.org/10.1186/s12876-020-01305-z>

18. Pogreba-Brown K, **Austhof E**, Okello A, Weiss J, Lira R, Ernst K. Public Perceptions of Non-Pharmaceutical Interventions for Influenza and Mosquito-borne Illnesses – A Statewide Survey in Arizona. *Perspectives in Public Health*. 2020 Jul;140(4):214-21. <https://doi.org/10.1177/1757913919886605>
19. **Austhof E**, Berisha V, McMahan B, Owen G, Keith L, Roach M, Brown H. Participation and Engagement of Public Health Stakeholders in Climate and Health Adaptation. *Atmosphere*. 2020; 11(3):265. <https://doi.org/10.3390/atmos11030265>
20. Pogreba-Brown K, **Austhof E**, Ellingson K. The Case-Case Study: An Underutilized Tool in Infection Prevention. *American Journal of Infection Prevention*. 2020;48(3). <https://doi.org/10.1016/j.ajic.2018.11.024>
21. Pogreba-Brown K, **Austhof E**, Armstrong A, Schaefer K, Villa L, et al. Chronic gastrointestinal and joint-related Sequelae Associated with Common Foodborne Illnesses – A Scoping Review. *Foodborne Pathogens and Disease*. 2019;17(2). <https://doi.org/10.1089/fpd.2019.2692>
22. Ernst K, **Barrett E**, Hoswell E, Hayden M. Increasing women’s engagement in vector control: a report from Accelerate to Equal project workshops. *BMC Malaria Journal*. 2019;17(1):326. <https://doi.org/10.1186/s12936-018-2477-0>
23. **Barrett E**, Carr D, Bell ML, Pogreba-Brown K. Post-infectious sequelae after *Campylobacter* enteric infection: a pilot study in Maricopa County, Arizona, USA. *Pilot and Feasibility Studies*. 2018;4(1):142. <https://doi.org/10.1186/s40814-018-0335-z>
24. Pogreba-Brown K, O’Connor P, Matthews J, **Barrett E**, Bell ML. Case-case analysis of *Campylobacter* and *Salmonella* – using surveillance data for outbreak investigations and monitoring routine risk factors. *Epidemiology and Infection*. 2018;146(15):1916-1921. <https://doi.org/10.1017/S0950268818002200>
25. Pogreba-Brown K, **Barrett E**. *Campylobacter* and Ethnicity – A case-case analysis to determine differences in disease presentation and risk factors. *Foodborne Pathogens and Disease*. 2018;15(5):277-284. <https://doi.org/10.1089/fpd.2017.2337>
26. Hayden M, **Barrett E**, Bernard G, Toko EN, Agawo M, Okello AM, Gunn J, Ernst K. Barriers and opportunities to advancing women in leadership roles in vector control: perspectives from a stakeholder survey. *American Journal of Tropical Medicine and Hygiene*. 2018;98(5):1224-1227. <https://doi.org/10.4269/ajtmh.17-0693>
27. **Barrett E**, Barnes S, Pogreba-Brown K. An Experiential Learning Exercise in food-borne illness outbreak investigations: bridging education and experience. *Pedagogy in Health Promotion*. 2018;4(1):43-51. <https://doi.org/10.1177/2373379917700440>
28. Oren E, Fiero MH, **Barrett E**, Anderson B, Nunez M, Gonzalez-Salazar. Detection of Latent Tuberculosis Infection among migrant farmworkers along the US-Mexico Border. *BMC Infectious Disease* 2017;16(1):630. <https://doi.org/10.1186/s12879-016-1959-3>

White Papers

1. **Austhof E**, Anderson C, Gettel A, Domsy I, Brown A, Hondula D, Brown HE, Nguyen H. Gap Analysis of Climate and Health Research in Arizona: A Report by the Research Action Team of Bridging Climate Change and Public Health in Cooperation with the Maricopa County Department of Public Health. 2020.
2. Roach M, **Austhof E**, Berisha V, Brown H, Carr D, Harlow-Smith L, Hondula D, Snyder K. Addendum to the Arizona Climate and Health Adaptation Plan. A report prepared for the CDC Climate-Ready States and Cities Initiative. 2018.
3. Morano LH, Jagger MA, **Barrett E**, Berisha V, Borjan M, Heitzinger K, Kumar R, Lane K, Lumia M, Menager H, Thie L. Syndromic Surveillance Climate and Health Guidance Document. A CSTE guidance document prepared by the CSTE Climate and Health Syndromic Surveillance Workgroup, CSTE Climate Change Subcommittee. 2017.

4. Roach M, **Barrett E**, Brown HE, Dufour B, Hondula DM, Putnam H, Sosa B. Arizona's Climate and Health Adaptation Plan. A report prepared for the CDC Climate-Ready States and Cities Initiative. 2017.

MEDIA

1. Public Health Epidemiology Conversations Podcast. [Episode #265 Climate Change In Public Health, With Erika Austhof, MPH](#). 2022
2. The Wild Womn Hotline Podcast. [Episode #55 Where is She Now? Erika Austhof, Founder of Aenge Consulting, Shares how WWH Impacted her First Year of Business](#). 2022
3. UArizona Health Sciences. [Public Health Researchers Join Statewide Initiative to Prepare for Climate Impacts](#). 2022
4. KVOA News 4 Tucson. [Heroes of COVID-19: UArizona's SAFER contact tracing call center](#). 2021
5. Mother Jones. [Stop the COVID Shaming!](#) 2021
6. Love Your Bod Pod. [#104 Weight Bias in Public Health, COVID-19 Research + How to Accept Your Body w/ Epidemiologist Erika Austhof](#). 2021
7. The Wall Street Journal. [U.S. Coronavirus Infections Fall Below 60,000 for Second Straight Day](#). 2020
8. Charlotte Observer. [North Carolina battles COVID-19 as cases spike in the South](#). 2020
9. Winston-Salem Journal. [Coronavirus is Exploding in the South, what can North Carolina do to control it?](#) 2020
10. AZ Big Media. [Here's how smartphone app may have cut COVID-19 at UArizona by 12%](#). 2020
11. Cronkite News. [Once used to track foodborne illnesses, UArizona team now traces COVID contacts](#). 2020
12. AZPHA. [University of Arizona Faculty and Staff Regarding COVID-19 Response Recommendations](#). 2020

CONFERENCES/SCHOLARLY PRESENTATIONS

Conference Leadership

- Co-chair for Environmental Links to Infection, Pain, and Disease Session. American Meteorological Society's 14th Conference on Environment and Health at the AMS 103rd Annual Meeting. January 9, 2023.

Oral Presentations

- **Austhof E.** "Exploring the Association between Precipitation and Drought on *Salmonella* and *Campylobacter* incidence in the Southwest." January 19, 2023. Arizona Foodborne Taskforce Meeting, virtual.
- **Austhof E.** "Systematic Review on the Effect of Precipitation and Drought on Bacterial Foodborne Illness: Data Gaps and Integrations Across Climate and Health." January 9, 2023. American Meteorological Society's 14th Conference on Environment and Health at the AMS 103rd Annual Meeting, Denver, CO.
- **Austhof E.** "Introduction to Open Science for Epidemiologists." November 29, 2022. University of Arizona College of Public Health Department of Epidemiology and Biostatistics seminar, virtual.
- **Austhof E.** "Exploring the Association between Precipitation and Drought on *Salmonella* and *Campylobacter* incidence in the Southwest." November 17, 2022. Southwest One Health Symposium, Flagstaff, AZ.
- **Austhof E.** "Review of Post-Infectious Complications and Chronic Outcomes Following Major Foodborne Illness." July, 2021. International Association for Food Protection Conference, virtual.

- **Austhof E.** “Protecting the Future of Food: Taking Action on Climate Change to Address the Impact on Food Safety.” October, 2020. International Association for Food Protection Conference, virtual.
- **Austhof E,** Berisha V, McMahan, B, Owen, G, Keith L, Roach M, Brown H. “Engaging Public Health Stakeholders in Climate Change Adaptation: Lessons learned from Maricopa County, AZ and the Climate Assessment for the Southwest”. December, 2019. American Geophysical Union Fall Meeting, San Francisco, CA.
- **Austhof E,** Carr D, Pogreba-Brown K, Bell M. “Post-infectious sequelae after Campylobacter enteric infection: a pilot study.” September, 2019. Campylobacter, Helicobacter and Related Microorganisms conference, Belfast, Ireland. (non-presenting author)
- **Barrett E.** “Heat Related Illness and Vulnerable Populations: Interventions for Homelessness, Substance Abuse & Mental Illness.” April, 2016. University of Arizona Social Justice Symposium, Tucson, AZ.

Poster Presentations

- **Austhof E,** Bell ML, Riddle MS, Catalfamo CL, McFadden C, Cooper K, Scallan E, Jacobs ET, Pogreba-Brown K. Persisting gastrointestinal symptoms and post-infectious irritable bowel syndrome following SARS-CoV-2 infection: results from the Arizona CoVHORT. June 2022. Poster session presented at the Society for Epidemiology Research Annual Meeting, Chicago, IL.
- **Austhof E,** Brown HE. Global Warming's Six MTurks: A Secondary Analysis of a US-Based Online Crowdsourcing Market. May 2022. Poster session presented at University of Arizona Public Health Poster Forum, Tucson, AZ.
- **Austhof E,** K Busick, C McKaughan, L Esquivel, K Pogreba-Brown. Conducting Surveillance with the Student Aid for Field Epidemiology Response Program: Interview Rates and Impacts of Text Messaging, 2008-2017. June 2019. Poster session presented at Council of State and Territorial Epidemiologists, Raleigh, NC.
- **Austhof E,** Carr D, Pogreba-Brown K, Bell M. Post-Infectious Sequelae after Campylobacter Enteric Infection: A Pilot Study. June 2019. Poster session presented at Council of State and Territorial Epidemiologists, Raleigh, NC.

GRANTS AND CONTRACTS

Awarded Grants and Contracts

Federal

Syndromic Surveillance Expert Consultant
 Association of State and Territorial Health Officials (ASTHO)
 Total Award: \$175,000
 Subcontractor with ThoughtBridge LLC
 2022 – Present

Consultant to facilitate the CSTE HIV, Viral Hepatitis, STD and TB Data Sharing Scenarios, Guidance, and References Workgroup and update 2011 NCHSTP Data Security and Confidentiality Guidelines
 Competitive contract
 Council of State & Territorial Epidemiologists (CSTE)
 Total Award: \$19,475
 PI
 2022 – 2023

Consultant to facilitate the 2022 CDC/CSTE Infectious Disease Forecasting Workshop
Competitive contract
Council of State & Territorial Epidemiologists (CSTE)
Total Award: \$15,000
Co-PI
2022