

Ian D. Buller

National Cancer Institute
Division of Cancer Epidemiology and Genetics
Occupational and Environmental Epidemiology Branch
9609 Medical Center Drive, 6E576
Rockville, MD 20850

EDUCATION

- 2013 B.A./M.A., Ecology and Evolutionary Biology, University of Colorado – Boulder
 Thesis: *Nationwide distributional determinants for a wildlife and human parasite*
- 2019 Ph.D., Environmental Health Sciences, Emory University
 Dissertation: *On estimating the spatial distribution of enzootic Yersinia pestis in the United States using a wide-ranging sentinel species and spatial statistics with sampling considerations*

PROFESSIONAL EXPERIENCE

- 2008-2013 Student Assistant (I & II), University of Colorado – Boulder (CU-Boulder), Boulder, CO
- 2012-2013 Research Assistant, Wedge Communications L.L.C., Golden, CO
- 2013 Visiting Research Assistant, Instituto Leônidas e Maria Deane – Fiocruz Amazônia, Manaus, Brazil
- 2019- Cancer Prevention Fellow, National Institutes of Health (NIH), National Cancer Institute (NCI), Division of Cancer Epidemiology and Genetics (DCEG), Occupational and Environmental Epidemiology Branch

OTHER TRAINING

- 2012 Graduate Summer Session in Epidemiology, University of Michigan, Ann Arbor, MI
- 2015 Adult Mosquito Identification Certification, East Georgia State College, Swainsboro, GA
- 2017 Bayesian and INLA Disease Mapping Curriculum, Medical University of South Carolina, Charleston, SC
- 2017 Graduate Workshop on Environmental Data Analytics, National Center for Atmospheric Research, Boulder, CO
- 2019 Principles and Practice of Cancer Prevention and Control course, NCI, Rockville, MD
- 2019 Molecular Cancer Prevention course, NCI, Rockville, MD
- 2020 Linux for Biomedical Researchers, Foundation for Advanced Education in the Sciences (FAES) at NIH, Bethesda, MD
- 2020 Creating Plots, Graphs, and Maps Using R, FAES at NIH, Bethesda, MD

AWARDS, SCHOLARSHIPS, HONORS

- 2006 Eagle Scout Rank, Boy Scouts of America
- 2008 Summer Undergraduate Research Experience, CU-Boulder
- 2008-2013 Presidential Leadership Class, CU-Boulder

2010	Alvin G. Flanagan/Walker Family Scholarship, CU-Boulder
2011	Barry M. Goldwater Scholarship, Barry M. Goldwater Scholarship and Excellence in Education Foundation
2013	Graduate Research Fellowship Program, National Science Foundation (honorable mention)
2014	Global Health Student Photography Contest, Emory Global Health Institute (honorable mention)
2014-2019	Graduate Research Fellowship Program, National Science Foundation
2017	Graduate Research Internship Program, National Science Foundation
2017	New Thinkers/New Leaders Award, Emory University
2018	Student Section Travel Award, Ecological Society of America Annual Meeting; New Orleans, LA
2018	Young Investigator Award, American Society of Tropical Medicine and Hygiene
2020	William G. Coleman Jr., Ph.D., Minority and Health Disparities Research Innovation Award, National Institute on Minority Health and Health Disparities (NIMHD)

ACADEMIC APPOINTMENTS/ MENTORING EXPERIENCE

2011	Undergraduate Teaching Assistant, CU-Boulder, Department of Ecology and Evolutionary Biology
2010-2011	First Year Class Advisor, CU-Boulder, Presidents Leadership Class
2011-2013	Academic Affairs Fellow, CU-Boulder, Presidents Leadership Class
2014-2017	Teaching Assistant, Emory University, Rollins School of Public Health
2017-2018	Laboratory Instructor, Emory University, College of Arts and Sciences
2017-2018	Symposium Research Mentor, Emory University, Emory University Undergraduate Research Program

PROFESSIONAL CONTRIBUTIONS AND AFFILIATIONS

Committees, Review Panels, and Editorial Boards

2015-2018	Co-Founder, President, and Treasurer, Public Health Doctoral Students in Environmental Health, Emory University
2016-2018	Team Lead, Emory Climate Analysis and Solutions Team, Emory University
2017	Judge, Science Fair, Fernbank Elementary School
2017-2018	Judge, Undergraduate Research Symposium, Emory University
2018-2019	Judge, American Statistical Society DataFest at Emory University
2019-	Co-Editor & Reviewer, DCEG Fellows Editorial Board, NCI
2019-	Method and Training Committee, Fellows Advisory Board, Cancer Prevention Fellowship Program, Division of Cancer Prevention, NCI

Professional Societies and Memberships

2010-2013	American Society of Parasitologists
2011-	Phi Beta Kappa
2011-2018	Ecological Society of America
2013-	Society for Epidemiologic Research
2016-2017	Georgia Public Health Association
2017-2018	American Public Health Association
2018-	American Society of Tropical Medicine and Hygiene
2018-	American Statistical Association
2019-	American Association for Cancer Research (Affiliate member)
2020-	American Association of Geographers
2020-	National Postdoctoral Association (Affiliate member)

Reviewer for Refereed Journals

PLoS – Neglected Tropical Diseases	Journal of the Georgia Public Health Association
Methods in Ecology and Evolution	Cancer Causes & Control

Invited Presentations

2017	Panelist, Dean's council meeting: Climate and health, Emory University, Rollins School of Public Health, Atlanta, GA
2018	Spatial distribution of <i>Yersinia pestis</i> found in <i>Canis latrans</i> across North America, United States Department of Agriculture, Animal & Plant Health Inspection Services, Wildlife Disease Program, Fort Collins, CO
2018	Spatial distribution of <i>Yersinia pestis</i> found in a sentinel species across the United States while accounting for sampling uncertainty, Lancaster University, Lancaster, United Kingdom
2018	Climate and the plague. The Emory Climate Analysis and Solutions Team, Climate@Emory, Emory University, Atlanta, GA
2019	On examining spatial patterns in principal component space to identify suitable habitat for <i>Yersinia pestis</i> transmission in the western United States, DCEG Geographic Analysis Working Group, NCI, Rockville, MD
2019	On examining spatial patterns in principal component space to identify suitable habitat for <i>Yersinia pestis</i> transmission in the western United States, Geospatial Interest Group, Federal Committee on Statistical Methods, Washington, DC
2019	The geographic distribution of <i>Yersinia pestis</i> in California: a spatial analysis of carnivore-based spatial disease surveillance, Vector-Borne Disease Section, California Department of Public Health, Sacramento, CA
2020	Zoonotic surveillance of plague via point processes in geographic and principal component space, Department of Biostatistics and Bioinformatics Seminar, Emory University, Atlanta, GA

Contributed presentations (presenting author only)

Oral presentations

- 2010 A loaded toad: Parasite Communities of juvenile Western Toads (*Anaxyrus boreas*) from California and Oregon. American Society of Parasitologists Annual Meeting, Colorado Springs, CO
- 2011 Parasite communities of juvenile Western Toads (*Anaxyrus boreas*) from California and Oregon, USA. Rocky Mountain Conference of Parasitologists Annual Meeting, Ogallala, NE
- 2012 Factors related to the distribution and abundance of the four-host trematode parasite *Alaria* spp. in amphibians in the San Francisco Bay Area. Ecological Society of America Annual Meeting, Portland, OR
- 2015 A solution to the problem of separation in site-occupancy models. Ecological Society of America Annual Meeting, Baltimore, MD
- 2020 Geographic variation in the oral microbiome of NIH-AARP Diet and Health Study participants. International Society for Environmental Epidemiology. Washington, DC (*in review*)

Poster presentations

- 2013 Nationwide distributional determinants of an amphibian and human parasite. Ecological Society of America Annual Meeting, Minneapolis, MN
- 2017 Spatial distribution of *Yersinia pestis* in wildlife in California while accounting for sampling effort. Ecology and Evolution of Infectious Disease Annual Meeting, Santa Barbara, CA
- 2017 Assessing public health co-benefits of the City of Atlanta's Climate Action Plan. American Public Health Association Annual Meeting, Atlanta, GA
- 2018 Spatial distribution of *Yersinia pestis* found in a sentinel species across the United States while accounting for sampling uncertainty. Ecology and Evolution of Infectious Disease Annual Meeting, Glasgow, United Kingdom
- 2018 Spatial distribution of *Yersinia pestis* found in a sentinel species across the United States while accounting for sampling uncertainty. Ecological Society of America Annual Meeting, New Orleans, LA
- 2018 Spatial distribution of *Yersinia pestis* found in a sentinel species across the United States while accounting for sampling uncertainty. American Society of Tropical Medicine and Hygiene Annual Meeting, New Orleans, LA
- 2020 Geographic variation in the oral microbiome of Agricultural Health Study applicators. American Association of Geographers Annual Meeting, Denver, CO (*accepted but COVID-19*)
- 2020 Geographic variation in the oral microbiome of Agricultural Health Study applicators. Society for Epidemiologic Research Annual Meeting, Boston, MA (*accepted but COVID-19*)

BIBLIOGRAPHY

Peer-reviewed publication(s)

1. Johnson PTJ, **Buller ID**. Parasite competition hidden by correlated coinfection: Using surveys and experiments to understand parasite interactions. *Ecology* 92(3): 535-541; 2011. PMID: 21608460