

**Ian D. Buller**

National Cancer Institute  
 Division of Cancer Epidemiology and Genetics  
 Occupational and Environmental Epidemiology Branch  
 9609 Medical Center Drive, 6E576  
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<https://idbl.rbind.io>

**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
- 2020 DCEG Informatics Tool Challenge, NCI

### **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**

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|------------------------------------|--|
| 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 *Yersinia pestis* found in *Canis latrans* across North America, United States Department of Agriculture, Animal & Plant Health Inspection Services, Wildlife Disease Program, Fort Collins, CO
- 2018 Spatial distribution of *Yersinia pestis* 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 *Yersinia pestis* 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 *Yersinia pestis* transmission in the western United States, Geospatial Interest Group, Federal Committee on Statistical Methods, Washington, DC
- 2019 The geographic distribution of *Yersinia pestis* 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

### ***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