A. PERSONAL STATEMENT

I am an assistant professor in the College of Health at Oregon State University, USA. I have a multidisciplinary background in civil engineering, geography, epidemiology, and environmental health, and enthusiastically collaborate on interdisciplinary teams to address the multidimensional challenges facing public health. My research investigates the modifiable social and environmental drivers of health disparities, as well as the health effects of transportation noise, radon decay, and airborne particulates.

B. EDUCATION & EMPLOYMENT

Education

PhD, Epidemiology, 2020
Medical University of South Carolina (MUSC), Charleston, SC

MA, Geography, 2014
University of North Carolina (UNC), Chapel Hill, NC

BS, Civil Engineering, 2006
California Polytechnic State University (Cal Poly), San Luis Obispo, CA

Professional experience

Postdoctoral Associate, Department of Environmental Health, 2020-2022
Boston University School of Public Health (BUSPH), Boston, MA

GIS Analyst, 2015
Tidewater Environmental Services, Charleston, SC

Hydraulic Engineer-In-Training (E.I.T. #123429), 2011-2012
MA Engineering Consultants, Cary, NC

Civil Engineer-In-Training (E.I.T. #123429), 2004-2009
CH2M HILL (now Jacobs), Portland, OR

C. SCHOLARSHIP

Peer-reviewed publications


Invited seminars

Bozigar M. “Associations between aircraft noise, sleep, and adiposity in the Nurses’ Health Study cohorts”. Seminar series College of Public Health & Human Sciences (CPHHS), Oregon State University (OSU); 2022 Nov 4; Corvallis, OR.


Oral presentations


Bozigar M. “Radon and non-lung cancer outcomes”. OSU Ignite session, 2022 Oct 28; Corvallis, OR.


Bozigar M, Lawson A, Svendsen E, Pearce JL. “Exploring socioenvironmental determinants of pediatric asthma disparities in South Carolina.” Joint annual meeting of ISEE and the International Society of Exposure Science; 2018 Aug 30; Ottawa, ON, Canada.

Bozigar M, Cristaldi KK, Pearce JL, “Exploring the geography of pediatric asthma using emergency department visits in South Carolina.” Perry V. Halushka MUSC Student Research Day; 2017 Nov 3; MUSC, Charleston, SC.


Poster presentations

Bozigar M, Cohen RT, Connolly CL, Adams WG, Levy JI, Fabian MP. “Decoupling race/ethnicity from pediatric lung function metrics to investigate potential misclassification bias in environmental epidemiologic research.” Annual meeting of ISEE; 2022 Sep 18; Athens, Greece.


Bozigar M, Lawson AB, Pearce JL, Svendsen ER, Vena J. “Using Bayesian time-stratified case-crossover models to examine associations between air pollution and “asthma seasons” in a low air pollution environment.” Annual meeting of ISEE; 2021 Aug 23; New York, NY (virtual).


Matthew Bozigar, PhD, MA
Bozigar M, Gray CL, Bilsborrow RE. “Longitudinal and multi-ethnic changes in wild resource utilization in the Ecuadorian Amazon.” South Eastern Division of the Association of American Geographers Annual Meeting; 2012 November 19, Asheville, NC.

Current awards & support

Oregon State University Environmental Health Sciences Center Early Stage Investigator (2024).

Funding Award (PI): Traffic noise measurement sampling project for Multnomah County using state-of-the-art low-cost measurement device ($100,000), Multnomah County, 2023

Pilot Project Program Award (PI): Elucidate the spatio-temporal patterns of indoor air within and across homes, in addition to correlations with housing characteristics ($24,420) – Pacific Northwest Center for Translational Environmental Health Research, 2022

Loan Repayment Program Award L40HL165560 (PI, ≤$50,000/yr) – National Heart, Lung, and Blood Institute (NHLBI), 2022-2024

Grant applications

P20 (Co-I): Climate Change and Health Adivation Research Center – National Institute of Environmental Health Sciences (NIEHS), 2023

KL2 (PI): Integrating Electronic Health Records and Environmental Data to Better Understand and Treat Asthma (Principal Investigator) – Oregon Clinical & Translational Research Institute, 2023

Previous grants & support

F31 Predoctoral Research Service Award F31HL142124 (PI, $42,000/year) – National Heart, Lung, and Blood Institute (NHLBI), 2018-2020

Dissertation Workshop Participant, fully-funded ($1,000) – Annual meeting of the Society of Epidemiologic Research, Seattle, WA, 2017

Tinker Research Travel Grant, 3 weeks in indigenous Amazonian communities in Ecuador ($1,800) – UNC Institute for the Study of the Americas, 2013

Reward and Recognition, Monetary Reward and Recognition ($1,500) – CH2M HILL (now Jacobs), 2008

Awards & honors

New Researcher Abstract Award, Best from North America, Student and New Research Network (free 1-year society membership) – Annual Meeting of the International Society for Environmental Epidemiology (ISEE), New York, New York (virtual), 2021

Student Abstract Award, Best from North America, Student and New Research Network ($500) – Annual Meeting of ISEE, Utrecht, The Netherlands, 2019

Departmental Nomination to Apply for National Institutes of Health Director’s Early Independence Award (DP5) from MUSC – MUSC DPHS, 2019

Dr. Raymond S. Greenberg Presidential Scholars Program Scholar – MUSC, 2018-2019
Media coverage
  o Article: “Associations between Aircraft Noise Exposure and Self-Reported Sleep Duration and Quality in the United States-Based Prospective Nurses’ Health Study Cohort”
    • Mentioned by 49 news outlets, including U.S. News and World Reports, MSN, StudyFinds, and CNET
    • 99th percentile Altimetric Attention Score of 25+ million research outputs tracked by Altmetric, 98th percentile Altimetric Attention Score for outputs from Environmental Health Perspectives (Impact factor: 10.4)

D. SERVICE

Teaching – OSU

  Peer reviews
  o Emily Norcross, 2023 Mar 6
  o Sunil Khanna, 2023 Feb 10

  Courses
  o H651 Advanced Epidemiological Methods, OSU, Winter 2023
    • 75% course redesign and refresh
    • Instructor
  o H425 Foundations of Epidemiology (E-campus), OSU, Spring 2023
    • Instructor
  o H425 Foundations of Epidemiology (E-campus), OSU, Fall 2023
    • Instructor

  Training
  o Faculty Drop-In Discussion: The Impact of Generative AI on Education, 2023 May 11
  o Mutual Mentors Program, OSU, Fall 2022

Teaching – previous institutions

  Courses
  o Geographic Information Systems for Public Health, BUSPH, Fall 2021
    • Guest lecture on spatial statistics
  o Principles of Environmental Health Science, MUSC, Spring 2018
    • Guest lecture on geospatial data in environmental health
  o Field Epidemiology, MUSC, Summer 2017
    • Guest lecture on communicable diseases and outbreaks
  o Principles of Environmental Health Science, MUSC, Spring 2017
    • Guest lecture on geospatial data in environmental health
  o Foundations of Epidemiology I, MUSC, Fall 2016
    • Lead small group discussions
  o Introduction to Geographic Information, UNC, Spring 2013
    • Lead two laboratory sections
  o World and Regional Geography, UNC, Spring 2012
    • Co-lead review session

Professional & institutional

  SPER student and trainee poster judge
ISEE NAC Scientific Organizing Committee, Chair of Sub-Committee on Session Themes and Abstract Assignments, OSU, 2022-2023

Student Advisory Committee Member – MUSC DPHS, 2018-2019

Senator from Geography Department – UNC Graduate and Professional Student Federation (GPSF), 2013-2014

College of Public Health and Human Sciences – OSU

University Core Education: Scientific Inquiry and Analysis Workgroup – Member 2023

Virtual open house for prospective Master’s in Public Health students – Co-represented epidemiology program, Fall 2022

Committees

Students
  o Kianoush Vali (MS Civil Engineering)

Research Assistants – OSU

MPH students
  o Carson Mowrer

Student advising – OSU

MPH students
  o Emily Moore

Student mentoring – previous institutions

PhD students
  o Catherine Connolly
  o Stephanie Grady, MPH
  o Raquel Jimenez Celsi, MS

Peer reviews

Journal
  o Cancer Medicine
  o Environmental Health Perspectives
  o Environment International
  o Urban Education

Proposal reviews

Organization
  o Robert Wood Johnson Foundation
    • Evidence for Action

Professional development

New to NIH Workshop (Instructor: Dr. Matthew Johnston) – OSU, 2022
ABCs of Machine Learning (workshop, instructors Dr. Jeanette Stingone and Dr. Eric Lofgren) – SER Annual Meeting (virtual), San Diego, CA, 2020.

Social Epidemiology (short course, instructor: Dr. Manuel Franco) – Summer Institute of Epidemiology and Biostatistics, Johns Hopkins University, 2018

Data Wrangling with R (short course, instructors: Dr. Andrew Jaffe and Dr. Jeff Leek) – Summer Institute in Statistics for Big Data, University of Washington, 2018

Big Environmental Data (workshop, instructors: Dr. Youssef Oulhote, Dr. Laura Balzer, Dr. Chirag Patel, & Dr. Martin Tondel) – ISEE Annual Meeting, Ottawa, Canada, 2018

Professional memberships

International Society for Exposure Science (ISES), 2020-current

International Society for Environmental Research (ISEE), 2018-current

Society for Epidemiologic Research (SER), 2017-current

Society for Pediatric and Perinatal Epidemiologic Research (SPER), 2019-current