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### Book Chapters

[1] Dominici, A, **Wilson, A,** "Dynamics of Environmental Epidemiology". *Handbook of Environmental and Ecological Statistics*. Ed. by AE Gelfand, M Fuentes, JA Hoeting, and RL Smith. Boca Raton, FL: Chapman & Hall/CRC, 2018. Chap. 24.

### Non-Peer-Reviewed publications

- Trenholm CA, Mabli JG, Wilson A (2009). SCHIP Children: How Long Do They Stay and Where Do They Go? Princeton, NJ: Robert Wood Johnson Foundation.
- Gleason PM, Briefel RR, Wilson A, Dodd AH (2009). School Meal Program Participation and Its Association with Dietary Patterns and Childhood Obesity. Final Report submitted to U.S. Department of Agriculture Economic Research Service Food Assistance Branch. Cambridge, MA: Mathematica Policy Research.
- O'Neil, S, Merrill AR, Wilson A, Lake TK (2008). Differences in Hospitalizations for Ambulatory Care Sensitive Conditions Among Maryland Medicare Beneficiaries 2006. Baltimore, MD: Maryland Health Care Commission, Center for Analysis and Information Services.
- O'Neil S, Merrill A, Wilson A, Lake T (2008). Assessment of Disparities in Potentially Avoidable Hospitalizations of Maryland Medicare Patients. Final Report submitted to the Maryland Health Care Commission. Cambridge, MA: Mathematica Policy Research, December.
- Limpa-Amara S, Lake TK, Wilson A (2005). Trends in Diabetes Mortality Among Medicare FFS Beneficiaries with Diabetes, 1992-2003. Final report submitted to the Centers for Medicare & Medicaid Services and the Centers for Disease Control and Prevention. Cambridge, MA: Mathematica Policy Research.

#### Funding

### Current Funding

-, City of Greeley (PI: Wilson)Predictive Modeling of Lead PipesRole: PI

9/15/2023 - 12/31/2024

R44ES024041, NIH/NIEHS (PI: Miller-Lionberg)

9/21/2021 - 8/31/2024

Validation of the UPAS+: A filter-based air sampler coupled with a suite of real-time sensors Role: co-I

 $R01ES033190,\,NIH/NIEHS\,\,(PI:\,Ananth)$ 

9/10/2021 - 6/30/2026

Ambient Air Pollution, Weather, and Placental Abruption (APWA)

Role: co-I and CSU subaward PI

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R01ES029943, NIH/NIEHS (MPI: Kioumourtzoglou, Weisskopf) 8/6/2020 - 5/31/2025 Air Pollution and Pregnancy Loss Role: co-I and CSU subaward PI R01OH011660, NIH/NIEHS (MPI: Volckens, Carter) 8/1/2019 - 7/31/2023 A Citizen-Science Approach to Occupational Hazard Assessment Role: co-I Completed Funding -, CSU Graduate School (MPI: Wilson, Ivans) 12/1/2022 - 6/30/2023 Graduate School Mentoring Mini-Grant -, AJ Kauvar Pundation (MPI: Magzamen, Wilson) 8/1/2020 - 7/31/2022 Air Pollution and Pregnancy Loss Role: MPI R01ES028811, NIH/NIEHS (MPI: Gennings, Coull) 5/15/2018 - 4/30/2022 Methods for data integration and risk assessment for environmental mixtures Role: co-I and CSU subaward PI R839278, US EPA (MPI: Magzamen) 1/1/2018 - 1/31/2020 Southeast Wisconsin Interdisciplinary Study of Childrens Health, Ecological Exposures and Social Environment Role: co-PI 80NSSC20K1774, NASA (MPI: Ravishankara) 7/1/2020 - 6/30/2021 Are there connections between PM2.5 and COVID-19 outcomes? Role: co-I R01ES023688, NIH/NIEHS (MPI: Peel, Volckens) 08/15/2014 - 05/31/2019 Cookstove air pollution: Emission profiles and subclinical effects of exposure Role: added as collaborator mid-grant R01ES020017, NIH/NIEHS (MPI: Volckens, Peel, Stuart) 01/15/2012 - 10/31/2017 The Commuter Exposure Study: Linking Exposures, Source-Receptor Models, And Health Role: added as collaborator mid-grant -, HICAHS pilot grant (MPI: L'Orange) 11/1/2016 - 10/31/2017 A Novel, Low-Cost Method for Assessing Personal Aerosol Exposures in Real-Time Role: collaborator Presentations InvitedBiometrics Society Spring Meeting (ENAR), Baltimore, MD 2024 National Institute of Environmental Health Sciences (NIEHS) DERT retreat on 2024 Precision Environmental Health, Research Triangle Park, NC Computational and Methodological Statistics (CMStatistics), Berlin, Germany 2023 EnviBayes Workshop on Complex Environmental Data, Fort Collins, CO 2023 Biometrics Society Spring Meeting (ENAR), Nashville, TN 2023

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Eunice Kennedy Shriver National Institute of Child Health and Human Development,	2023
Biostatistics and Bioinformatics Branch (Virtual)	
The University of Texas at Dallas, Department of Mathematical Sciences (Virtual)	2022
Biometrics Society Spring Meeting (ENAR), Houston, TX	2022
Columbia Mailman School of Public Health, Department of Biostatistics (Virtual)	2022
Computational and Methodological Statistics (CMStatistics), London, UK (Virtual)	2021
University of Southern California, Division of Biostatistics (Virtual)	2021
International Society of Environmental Epidemiology (ISEE) (Virtual)	2021
International Chinese Statistical Association (ICSA) Intl. Conf., Hangzhou, China	2019
Harvard T. H. Chan School of Public Health, Dept. of Biostatistics, Boston, MA	2019
International Society of Environmental Epidemiology (ISEE), Ottawa, Canada	2018
Virginia Tech University, Dept. of Statistics, Blacksburg, VA	2018
International Conference on Health Policy Statistics, Charleston, SC	2018
Tianjin Medical University, Dept. of Occ. & Envr. Health, Tianjin, China	2017
Intl. Symp. on Emerging Contaminants and Envr. Nanotechnology, Tianjin, China	2017
Colorado State University, Epidemiology, Fort Collins, CO	2016
NC State University, Dept. of Statistics $75^{th}$ Anniversary Symposium, Raleigh, NC	2016
Harvard T. H. Chan School of Public Health, Dept. of Biostatistics, Boston, MA	2016
New England Statistics Symposium (NESS), New Haven, CT	2016
Colorado State University, Dept. of Statistics, Fort Collins, CO	2016
VI-MSS Workshop on Environmental Statistics, Kolkata, India, Poster	2015
Public Health Foundation of India, New Delhi, India	2015
Biometrics Society Spring Meeting (ENAR), Baltimore, MD	2014
RAND Corporation, Santa Monica, CA	2014
National Center for Atmospheric Research, Boulder, CO	2014
University of Colorado, Dept. of Mathematical and Statistical Sciences, Denver, CO	2014
Harvard School of Public Health, Dept. of Biostatistics, Boston, MA	2014
University of North Carolina, Institute for the Environment, Chapel Hill, NC	2014
Colorado State University, Dept. of Statistics, Fort Collins, CO	2013
Atmospheric Modeling Division, U.S. Environmental Protection Agency, RTP, NC	2013
Contributed	
International Society of Environmental Epidemiology (ISEE) North American Chapter Meeting, Corvallis, OR, Oral Poster	2023
IS Global Exposome Data Challenge Event, virtual	2021
International Society of Environmental Epidemiology (ISEE), Rome, Italy, Poster	2016
Biometrics Society Spring Meeting (ENAR), Austin, TX	2016
Joint Statistical Meetings (JSM), Boston, MA	2014
Graduate Research Symposium, Raleigh, NC, Poster	2014
International Society for Environmental Epidemiology (ISEE), Basel, Switzerland, Poster	2013
Joint Statistical Meetings (JSM), Montreal, QC, Canada, Topic contributed	2013
Biometrics Society Spring Meeting (ENAR), Orlando, FL	2013
Society of Toxicology's 51th Annual Meeting (SOT), San Francisco, CA, Poster	2012
STATMOS Sponsored Seminar, North Carolina State University, Raleigh, NC	2011
Society of Toxicology's 50th Annual Meeting (SOT), Washington, DC, Poster	2011

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#### Teaching

### Colorado State University

STAT 440: Bayesian Data Analysis	S17, S18, S19, S20, S21, S22, S23
STAT 501: Statistical Science	F18, F19
STAT 540: Data Analysis and Regression	F16, F17, F19
STAA 554: Data Visualization Methods	S22, F22
STAA 566: Mixed Models	S19
STAA 578: Machine Learning	S20, S21, S22, S23

#### Guest Lectures

ERHS 535: R Programming for Research (Instructor: G. B. Anderson)

Title: Practical R on Summit High Performance Computing System

### Workshops and Short Courses

Invited Workshop on Critical Windows and Distributed Lag Regression February 2019
Icahn School of Medicine at Mount Sinai, New York, NY. Full-day workshop.
Joint with Brent A Coull, Chris Gennings, and Robert O Wright.

### Environmental Mixtures Workshop

July 2022, 2023

Columbia Mailman School of Public Health, New York, NY. Two-day workshop.

Joint with Marianthi-Anna Kioumourtzoglou (organizer), Brent A Coull, Chris Gennings, Jeff Goldsmith.

#### Advising & Mentoring

# Graduate Research Advising & Research Mentoring

Chamodi Matara Arachchige, Statistics MS, Research Assistant in Summer 2023

Brody Elderson, Statistics PhD, in progress (Joint with Matt Koslovsky)

Mosammat Sonia Khatun, Statistics PhD, in progress

Danielle Demateis, Statistics PhD, in progress (Joint with Kayleigh Keller)

- Honorable Mention: NSF Graduate Research Fellowship Program (GRFP), 2022

Seongwon Im, Statistics PhD, in progress

Sierra Pugh, Statistics PhD, 2023 (Joint with Bailey Fosdick)

- Next position: Western EcoSystems Technology, Inc. (WEST)

Lauren (Heck) Hoskovec, Statistics PhD, 2022

- Next position: Western EcoSystems Technology, Inc. (WEST)
- Winner: Health Effects Institute (HEI) Travel Award, 2019
- Winner: CSU Statistics, Elmer E. Remmenga Scholarship In Applied Statistics, 2018 and 2019
- Honorably Mention: 2021 JSM ENVR Section Student Paper Awards.
- Global Sustainability Fellow, School of Global Environmental Sustainability, CSU, 2020-2021
   Daniel Mork, Statistics PhD, 2021
  - Next position: Postdoctoral Fellow at Harvard Biostatistics
  - Winner: James R. zumBrunnen Statistical Collaboration Award, 2020

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- Winner: CSU Statistics, Boes Excellence in Teaching Award, 2019
- Winner: College of Natural Sciences Outstanding Scholar Award, 2020
- Winner: Health Effects Institute (HEI) Jane Warren Trainee Conference Award, 2021
   Emily Williams, Statistics MS 2020 (joint with Zach Weller)

### Undergraduate Research Mentoring

Olivia Beck, Statistics, BS 2020 (honors thesis advisor)

- Thesis title: College safe ride programs: Bayesian analysis of ridership with safe ride home versus anywhere policies
- Winner: Outstanding poster distinction for undergraduate posters at Joint Math Meetings, 2020
- Winner: CSU Statistic and Colorado-Wyoming Chapter of the ASA, Maurice Davies Award, 2020
- Next position: Statistics PhD student at Pennsylvania State University

Freya (Ziqian) Fu, Statistics & Psychology, BS 2017.

- Next position: Statistics MS student at Duke University.

# PhD Committee Member - Colorado State University

Musfig Nabeen, Statistics, in progress

Tony J. Zbysinski III, Epidemiology, in progress

Kevin Korsurat, Statistics, in progress

Maddie Rainey, Statistics, in progress

Nathan Ryder, Statistics, PhD 2023

Ethan Walker, Epidemiology, PhD 2019

Wande Benka-Coker, Epidemiology, PhD 2019

Miranda Fix, Statistics, PhD 2018

Meilin Yan, Epidemiology, PhD 2018

Kristen Fedak, Epidemiology, PhD 2018

Megan Benka-Coker, Epidemiology, PhD 2018

### PhD Committee Member - Other Institutions

Sebastian Rowland, Environmental Health Science, Columbia University, PhD 2022

MS Committee Member - Colorado State University

Hieu Nguyen, Statistics, MS 2019

Undergraduate Honors Thesis Committee Member - Colorado State University

Ashley Geraets, Mechanical Engineering, BS 2023

### Career Development Award Mentoring

Sheena Martenies, Assistant Professor in Kinesiology and Community Health at the University of Illinois

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Examining the joint effects of prenatal exposures to traffic-related air pollutants and social determinants of health on childhood obesity outcomes. NIH/Environmental influences on Child Health Outcomes (ECHO) Opportunities and Infrastructure Fund (OIF).

Christian L'Orange, Research Scientist in Mechanical Engineering, Colorado State University A Novel Approach of Quantifying Real-Time Aerosol Concentrations from Gravimetric Filter Collection. CDC/NIOSH K01.

### Working Group Organization

Creator and organizer of the Environmental Biostatistics Working Group at CSU. This group seeks to build collaboration and community among faculty and students working in biostatistics with application in environmental and public health.

#### DEIJ ACTIVITIES

Graduate Center for Inclusive Mentoring (GCIM) mini grant (2023) application to re-develop the Student Organized Activities and Research Seminars (SOARS) group for graduate students. This group hosts professional development activities that are not included in the traditional curriculum.

Initiated department-level of recruitment of under-represented minorities and first generation student to the to the MS/PhD and Master of Applied Statistics (MAS) programs from the TRIO McNair Scholar program.

Expanded access to computing in undergraduate classes by: 1) securing funding for RStudio Cloud subscriptions for students in undergraduate statistics classes from 2018-2022 and 2) securing funding for a department server and overseeing implementation of a department RStudio Workspace on that server.

#### SERVICE & PROFESSIONAL MEMBERSHIP

Departmental Service, Department of Statistics, Colorado State University

Data Science Curriculum Committee F16-S17

Doctoral Candidacy Examination Committee F16-S18, F19-S20 Statistics Seminar Series S17-S18 (chair) Computing Committee F17-S22 (chair)

Search Committee F17-S18, F18-S19, F19-S20, F22-S23

Graduate Admission Committee F18-S19, F22-S23 (chair)

Communication Committee F20-S21
Masters of Applied Statistics (MAS) Committee F20-S21
Graduate Program Committee F22

College and University Service, Colorado State University

Faculty Council F22-present

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# Departmental Service, Department of Biostatistics, HSPH

HSPH Environmental Seminar organizer F14-S16 HSPH NIH/Heatwave Working Group coordinator F15-S16

#### Editorial Service

Editorial Review Board, Environmental Health Perspectives	2023-Present
Associate Editor, Biometrics	2022-Present
Associate Editor, Journal of Agricultural, Biological, and Environmental	2020-Present
Statistics (JABES)	

Referee/Reviewer for a lot of journals a lot of times

2013-Present

#### Grant Reviewer

High Plains Intermountain Center for Agricultural Health and Safety (HICAHS) Pilot Grants: 2016, 2017, 2018

Icahn School of Medicine at Mount Sinai NIEHS P30 Pilot Grant: 2019

Walter A. Rosenblith New Investigator Award, Health Effects Institute: 2020, 2021 (×2)

US EPA Science To Achieve Results (STAR) Research Program: 2022

# Conference Organization

IMS New Researchers Conference (NRC), co-organizer, Fort Collins, CO

2019

# Conference Session Organization

Innovative Methods for Identifying Perinatal Critical Windows with Mixtures International Society for Environmental Epidemiology (ISEE) Symposium

2021

### Professional Society Service

Publications Chair-Elect, ASA Environment Section

2024-2025

### Professional Society Membership

Member: ASA, ENAR, ISEE

Last updated: May 6, 2024

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