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Oak Ridge Institute for Science and Education (ORISE) Fellow

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Early Investigator Award, ASA Section on Statistics and the Environment	2024
Best Environmental Epidemiology Paper (co-author), International Society for Environmental Epidemiology	2020
Rose Traveling Fellowship, Harvard T. H. Chan School of Public Health	2015

PUBLICATIONS

Published in Peer-Reviewed Journals

- [1] *Demateis, D, Keller, K, Rojas-Rueda, D, Kioumourtzoglou, MA, **Wilson, A,** "Penalized Distributed Lag Interaction Model: Air Pollution, Term Birth Weight, and Neighborhood Vulnerability". *Environmetrics* (In press). arXiv: 2401.02939.
- [2] Leung, M, Rowland, ST, Modest, AM, Hacker, MR, Papatheodorou, S, Wei, Y, Schwartz, J, Coull, BA, **Wilson**, A, Kioumourtzoglou, MA, Weisskopf, MG, "Inferring effects of time-varying prenatal exposures on pregnancy loss from live-birth-identified conceptions: A simulation study". *American Journal of Epidemiology* (In press).
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^{*} indicates current or former student.

[†] indicates part of consortium on paper.

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- [10] *Mork, D, Kioumourtzoglou, MA, Weisskopf, M, Coull, BA, Wilson, A, "Heterogeneous Distributed Lag Models to Estimate Personalized Effects of Maternal Exposures to Air Pollution". *Journal of the American Statistical Association* 119.545 (Jan. 2024), pp. 14–26. arXiv: 2109.13763.
 - ★ Included in ASA Editors' Choice Collections.
- [11] *Pugh, S, Fosdick, BK, Nehring, M, Gallichotte, EN, VandeWoude, S, **Wilson, A**, "Estimating cutoff values for diagnostic tests to achieve target specificity using extreme value theory". BMC Medical Research Methodology 24.1 (Feb. 2024), p. 30.
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 - ★ International Society of Environmental Epidemiology, Best Environmental Epidemiology Paper (BEEP) Award, 2020.

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- [92] Fox, MK, Dodd, AH, **Wilson, A**, Gleason, PM, "Association between school food environment and practices and body mass index of US public school children." *Journal of the American Dietetic Association* 109.2 Suppl (2009), S108–17.
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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.

R Packages

- [1] *Demateis, D, Keller, K, **Wilson**, **A**, dlim: Distributed Lag Interaction Model. R package version 0.1.0. 2024. URL: https://CRAN.R-project.org/package=dlim.
- [2] *Mork, D, *Im, S, Wilson, A, dlmtree: Bayesian Treed Distributed Lag Models. R package version 1.0.0. 2024. URL: https://CRAN.R-project.org/package=dlmtree.
- [3] Wilson, A. bdlim: Bayesian Distributed Lag Interaction Models. R package version 0.4.1. 2024. URL: https://CRAN.R-project.org/package=bdlim.

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Current Funding

R01ES035735, NIH/NIEHS (PI: Wilson)

7/6/2024-4/30/2029

Statistical Methods for Precision Environmental Health with Mixture Exposures

Role: PI

-, City of Greeley (PI: Wilson)

9/15/2023 - 8/31/2024

Predictive Modeling of Lead Pipes

Role: PI

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

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) Graduate School Mentoring Mini-Grant 12/1/2022 - 6/30/2023

-, 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

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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

Invited

Joint Statistical Meetings (JSM), Portland, OR	2024
Society for Epidemiologic Research (SER), Austin, TX	2024 2024
Biometrics Society Spring Meeting (WNAR), Fort Collins, CO	2024
Biometrics Society Spring Meeting (WVAR), For Comms, CO Biometrics Society Spring Meeting (ENAR), Baltimore, MD	2024
National Institute of Environmental Health Sciences (NIEHS) DERT retreat on	2024 2024
Precision Environmental Health, Research Triangle Park, NC	2024
Computational and Methodological Statistics (CMStatistics), Berlin, Germany	2023
EnviBayes Workshop on Complex Environmental Data, Fort Collins, CO	2023
	2023
Biometrics Society Spring Meeting (ENAR), Nashville, TN	
Eunice Kennedy Shriver National Institute of Child Health and Human Development,	2023
Biostatistics and Bioinformatics Branch (Virtual)	0000
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

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Atmospheric Modeling Division, U.S. Environn	aental Protection Agency, RTP, NC	2013
Contributed		
International Society of Environmental Epidem Chapter Meeting, Corvallis, OR, Oral Poster		2023
IS Global Exposome Data Challenge Event, vin		2021
International Society of Environmental Epidem		2016
Biometrics Society Spring Meeting (ENAR), Austin, TX		2016
Joint Statistical Meetings (JSM), Boston, MA		2014
Graduate Research Symposium, Raleigh, NC,		2014
International Society for Environmental Epidemiology (ISEE), Basel, Switzerland, Poste		
Joint Statistical Meetings (JSM), Montreal, QC	· · · · · · · · · · · · · · · · · · ·	2013
Biometrics Society Spring Meeting (ENAR), O		2013
Society of Toxicology's 51th Annual Meeting (STATIMOS S.		2012
STATMOS Sponsored Seminar, North Carolina Society of Toyloglogy's 50th Appeal Marting (,	2011
Society of Toxicology's 50th Annual Meeting (S	501), Washington, DC, Foster	2011
Teaching		
Colorado State University		
STAT 192: First-Year Statistics Seminar	F24	
STAT 440: Bayesian Data Analysis	S17, S18, S19, S20, S21, S22, S23, S2	15
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 562: Mathematical Statistics with Appli		
CTA A E70. Marking I arming	F24	
STAA 578: Machine Learning	S20, S21, S22, S23	
Guest Lectures		
ERHS 535: R Programming for Research (Inst Title: Practical R on Summit High Performe	,	F18
Workshops and Short Courses		
Invited Workshop on Critical Windows and Di	stributed Lag Regression February	v 2019
Icahn School of Medicine at Mount Sinai, Ne Joint with Brent A Coull, Chris Gennings, a	ew York, NY. Full-day workshop.	, 2 010
Environmental Mixtures Workshop	July 2022, 2023	3, 2024
Columbia Mailman School of Public Health, Joint with Marianthi-Anna Kioumourtzoglou Goldsmith.		gs, Jeff

2013

Colorado State University, Dept. of Statistics, Fort Collins, CO

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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, 2024

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
 - 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

Bowen Li, Electrical Engineering, in progress Musfiq 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

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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

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.

Inclusive Excellence Activities

Trainings and qualifications

Member of Graduate Center for Inclusive Excellence (GCIM) 2024-Completed GCIM GCIM Mentor Well Series of 8 training sessions between spring 2023 and summer 2024.

Completed Faculty Institute for Inclusive Excellence

Spring 2024

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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, F24-S25 (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, F24-S25

College and University Service, Colorado State University

Faculty Council F22-present

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
$Statistics \ (JABES)$	

2013-Present

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

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

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Professional Society Service

Publications Chair-Elect, ASA Environment Section

2025 - 2026

Professional Society Membership

Member: ASA, ENAR (2012-2024), WNAR (2024-present), ISEE

Last updated: October 31, 2024

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