Ander Wilson, PhD

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EDUCATION North Carolina State University, Raleigh, NC 2014 PhD, Statistics North Carolina State University, Raleigh, NC 2011 Masters of Statistics University of Vermont, Burlington, VT 2004 Bachelor of Arts, Mathematics, Cum Laude EXPERIENCE Colorado State University, Fort Collins, CO 2016 - Present Assistant Professor, Department of Statistics Faculty Member, Partnership on Air Quality Climate and Health Harvard T. H. Chan School of Public Health, Boston, MA 2014 - 2016Postdoctoral Research Fellow, Department of Biostatistics Mathematica Policy Research, Inc., Cambridge, MA 2014 - 2016On-Call Statistician U.S. Environmental Protection Agency, Chapel Hill, NC 2012 - 2014Oak Ridge Institute for Science and Education (ORISE) Fellow U.S. Environmental Protection Agency, RTP, NC 2010 - 2012Student Volunteer Researcher, National Center for Computational Toxicology North Carolina State University, Raleigh, NC 2009 - 2012NIH Trainee in Biostatistics and Statistical Genetics Mathematica Policy Research, Inc., Cambridge, MA 2005 - 20112009 - 2011On-Call Senior Programmer Analyst Senior Programmer Analyst 2008 - 2009Research Assistant/Programmer 2005 - 2007

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* indicates current or former student.

Published in Peer-Reviewed Journals

- Wilson, A, Hsu, HHL, Chiu, YHM, Wright, RO, Wright, RJ, Coull, BA, (In press). "Kernel Machine and Distributed Lag Models for Assessing Critical Windows to Exposure to Time-Varying Multipollutant Mixtures in Childrens' Health". Annals of Applied Statistics. arXiv: 1904.12417.
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 - ★ Health Effects Institute student/postdoc travel award winner, 2018.
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Book Chapters

Dominici, A, Wilson, A, (2018). "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. 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

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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

- Air Pollution and Pregnancy Loss. NIH/NIEHS R01 (8/6/2020 5/31/2025). Role: CSU-PI; PI: Kioumourtzoglou/Weisskopf (Columbia Mailman School of Public Health/Harvard T. H. Chan of Public Health).
- Characterizing the effect of wildfire smoke on COVID-19 severity and mortality. A.J. Kauvar Foundation (8/1/2020 7/31/2022). Role: co-PI; co-PIs Magzamen/Wilson.
- Are there connections between PM2.5 and COVID-19 outcomes?. NASA (7/1/2020 6/30/2021). Role: Co-I; PI: Ravishankara.
- A Citizen-Science Approach to Occupational Hazard Assessment. CDC/NIOSH (8/1/2019 7/31/2023). Role: Co-I; PI: Volckens/Carter.
- Southeast Wisconsin Interdisciplinary Study of Children's Health, Ecological Exposures and Social Environment (SWISCHEESE). US EPA (3/1/2018 2/28/2021). Role: Co-PI; PI: Magzamen.
- Methods for data integration and risk assessment for environmental mixtures. NIH/NIEHS R01 (5/15/2018 4/30/2022). Role: CSU-PI; PI: Gennings/Coull (Icahn School of Medicine at Mount Sinai/Harvard T. H. Chan of Public Health).

Completed Funding

- Cookstove air pollution: Emission profiles and subclinical effects of exposure. NIH/NIEHS R01 (08/15/2014 05/31/2019). Role: added as co-I; PI: Peel/Volckens.
- The Commuter Exposure Study: Linking Exposures, Source-Receptor Models, And Health. NIH/NIEHS R01 (01/15/2012 10/31/2017). Role: added as co-I; PI: Peel/Volckens.
- A Novel, Low-Cost Method for Assessing Personal Aerosol Exposures in Real-Time. High Plains Intermountain Center for Agricultural Health & Safety (HICAHS) pilot grant (11/1/2016 10/31/2017). Role: collaborator; PI: L'Orange.

Presentations (Recent and Upcoming)

Invited

International Society of Environmental Epidemiology (ISEE)	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

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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
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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

Teaching

Colorado State University

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

Guest Lectures

ERHS 535: R Programming for Research (Instructor: G. B. Anderson) F18 ${\bf Title:}\ Practical\ R\ on\ Summit\ High\ Performance\ Computing\ System$

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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 B Coull, C Gennings, and RO Wright.

Advising & Mentoring

Graduate Research Advising & Research Mentoring

Danielle Demateis, Statistics PhD, in progress

Seongwon Im, Statistics PhD, in progress

Lauren (Heck) Hoskovec, Statistics PhD, in progress

- 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: Postdoc 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 '20 (joint with Zach Weller)

Undergraduate Research Mentoring

Olivia Beck, Statistics, BS '20 (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 '17.

- Next position: Statistics MS student at Duke University.

PhD Committee Member - Colorado State University

Ethan Walker, Epidemiology, PhD '19 Wande Benka-Coker, Epidemiology, PhD '19 Miranda Fix, Statistics, PhD '18 Meilin Yan, Epidemiology, PhD '18 Kristen Fedak, Epidemiology, PhD '18 Megan Benka-Coker, Epidemiology, PhD '18

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PhD Committee Member - Other Institutions

Sebastian Rowland, Environmental Health Science, Columbia University, in progress

MS Committee Member - Colorado State University

Hieu Nguyen, Statistics, MS '19

Career Development Award Mentoring

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.

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-S21 (chair)
Search Committee	F17-S18, F18-S19, F19-S20
Graduate Admission Committee	F18-S19
DataFest at CSU	F19-S21 (chair)
Communication Committee	F20-S21

Departmental Service, Department of Biostatistics, HSPH

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

Associate Editor

Journal of Agricultural, Biological, and Environmental Statistics (JABES) 2020-Present

Reviewer

American Journal of Epidemiology (AJE) **Biometrics Biostatistics** BMJ Open

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Environmental Health

Environmental Health Perspectives (EHP)

Environmental International

International Journal of Epidemiology (IJE)

Journal of the Academy of Nutrition and Dietetics (JAND)

Journal of Agricultural, Biological, and Environmental Statistics (JABES)

Journal of the American Statistical Association (JASA)

Journal of the Royal Statistical Society, Series A (JRSS A)

Journal of the Royal Statistical Society, Series C (JRSS C)

PLOS ONE

Proceedings of the National Academy of Science (PNAS)

Statistical Methods in Medical Research

Statistics in Medicine

Statistics & Probability Letters

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

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

$Professional\ Membership$

Member: ASA, ENAR, ISEE

Last updated: August 19, 2021

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