

# CURRICULUM VITAE

## Marianthi-Anna Kioumourtzoglou

121 S Main St, #215  
Providence, RI 02903  
marianthi\_kioumourtzoglou@brown.edu

### Date of Preparation

March 23, 2026

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### Academic Appointments / Work Experience

- 03.2026 – Present **Barcelona Institute for Global Health (ISGlobal)**  
Associated Researcher (External)
- 07.2025 – Present **Brown University**  
**Department of Epidemiology, School of Public Health**  
**Institute at Brown for Environment and Society**  
Professor
- 10.2022 – 06.2023 **Barcelona Institute for Global Health (ISGlobal)**  
Visiting Scientist (on academic sabbatical)
- 07.2022 – 06.2025 **Columbia University Mailman School of Public Health**  
**Department of Environmental Health Sciences**  
Associate Professor
- 09.2016 – 06.2022 **Columbia University Mailman School of Public Health**  
**Department of Environmental Health Sciences**  
Assistant Professor
- 08.2007 – 07.2008 **California Air Resources Board**  
**Mobile Source Operations Division, Off-Road Certification/Audit Section**  
Air Resources Engineer
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## Education

- 09.2008 – 05.2013 **Harvard TH Chan School of Public Health**  
**Department of Environmental Health**  
Doctor of Science  
Major: Exposure Assessment  
Minors: Biostatistics and Epidemiology  
Advisor: Helen Suh  
Thesis Title: "Bias, Uncertainty, and Multi-Pollutant Exposures in Air Pollution Health Studies"
- 08.2005 – 07.2007 **University of North Carolina at Chapel Hill**  
**Department of Environmental Sciences and Engineering**  
Master of Science in Public Health  
Advisor: William Vizuete
- 09.2000 – 07.2005 **Democritus University of Thrace, Xanthi, Greece**  
**Department of Environmental Engineering**  
5-yr Diploma in Environmental Engineering
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## Training

- 06.2013 – 08.2016 **Harvard TH Chan School of Public Health**  
**Department of Environmental Health**  
Post-doctoral Research Fellow  
Mentor: Marc G. Weisskopf
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## Honors and Awards

- 2023 ISEE Tony McMichael Mid-Term Career Award  
2022 Dean's Excellence in Mentoring Award

## REVIEWER AWARDS

- 2024 Received special recognition as a "top-tier peer reviewer who went above and beyond in 2023" for EHP
- 2021 Received special recognition as a "top-tier peer reviewer who went above and beyond in 2020" for EHP
- 2018 Included in the 2018 list of best reviewers of the year, American Journal of Epidemiology

## PAPER AWARDS

2025	March paper of the month by NIEHS Environmental Factor ( <i>publication # 132</i> )
2025	Two of the 30 NIEHS papers of the year for 2024 (out of ~3200) ( <i>publications #128 and # 129</i> )
2024	October paper of the month by NIEHS Environmental Factor ( <i>publication # 129</i> )
2024	September paper of the month by NIEHS Environmental Factor ( <i>publication # 128</i> )
2023	One of the 30 NIEHS papers of the year for 2023 (out of ~3,400) ( <i>publication # 112</i> )
2023	American Statistical Association Editor's Choice Collection ( <i>publication # 121</i> )
2023	May paper of the month by NIEHS Environmental Factor ( <i>publication # 112</i> )
2022	One of the 32 NIEHS papers of the year for 2022 (out of ~3,300) ( <i>publication # 92</i> )
2022	May paper of the month by NIEHS Environmental Factor ( <i>publication # 92</i> )
2022	February paper of the month by NIEHS Environmental Factor ( <i>publication # 85</i> )
2021	One of the 35 NIEHS papers of the year for 2021 (out of 3,942) ( <i>publication # 67</i> )
2021	May paper of the month by NIEHS Environmental Factor ( <i>publication # 67</i> )
2021	January paper of the month by NIEHS Environmental Factor ( <i>publication # 65</i> )
2019	November paper of the month by NIEHS Environmental Factor ( <i>publication # 47</i> )
2018	Best paper of the year, American Journal of Epidemiology ( <i>publication # 31</i> )
2018	August paper of the month by NIEHS Environmental Factor ( <i>publication # 26</i> )
2018	Paper included in Environmental Health Perspectives' (EHP) 2018 Journal Impact Factor Collection ( <i>publication # 16</i> )

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**Administrative Leadership, Professional and Academic Service**

## PROFESSIONAL SOCIETIES

2025 – Present	North American Councilor to the International Society for Environmental Epidemiology Executive Council
2019 – 2022	Co-Chair, International Society for Environmental Epidemiology North American Chapter (together with Dr. Joan Casey)

## COMMITTEES

2026	Scientific Organizing Committee for the 2022 ISEE Meeting
10.2024 – 01.2025	US Environmental Protection Agency, CASAC (Clean Air Scientific Advisory Committee) Ozone Panel <i>*Committee dismantled under Trump administration</i>
2024 – Present	National Academies of Science, Engineering, and Medicine's Committee on <i>Mental Health Effects of Toxic Exposures Among Veterans</i>
2023	Scientific Organizing Committee for the 2023 ISEE North American Chapter Meeting
2022	Scientific Organizing Committee for the 2022 ISEE Meeting
2021	Scientific Organizing Committee for the 2021 ISEE Meeting
2020 – 2022	National Academies of Science, Engineering, and Medicine's Committee to <i>Re-assess the Department of Veterans Affairs Airborne Hazards and Open Burn Pit Registry</i>

## SCIENTIFIC REPORT REVIEW SERVICE

2025	National Academies of Sciences, Engineering, and Medicine (NASEM). Invited Reviewer for: <i>State of the Science and the Future of Cumulative Impact Assessment (Washington, DC: The National Academies Press)</i>
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## GRANT REVIEW SERVICE

2025 – Present	Chair of the NIH ASPB study section (till 06.30.2027)
12.2024	Pilot Research Project Grant Reviewer for the USC Southern California Environmental Health Sciences Center
2023 – Present	NIH ASPB study section standing member (3-year commitment)
10.2022	Ad-hoc reviewer for the NIH ASPB study section
07.2021	Ad-hoc reviewer for the NIH BMRD study section
03.2021	Pilot Research Project Grant Reviewer for the Columbia Center for Environmental Health in Northern Manhattan
01.2021	Pilot Research Project Grant Reviewer for the Mt. Sinai Transdisciplinary Center on Health Effects of Early Environmental Exposures
07.2020	NIEHS R13 Conference Grant Proposals
03.2020	NIEHS "Pregnancy as a Vulnerable Time Period for Women's Health" R01 Special Emphasis Panel
10.2018	Pilot Research Project Grant Reviewer for the Harvard Chan-NIEHS Center for Environmental Health
06.2018	NIEHS ONES R01 Review Panel, RTP, NC
06.2018	Pilot Research Project Grant Reviewer for the Mt. Sinai Transdisciplinary Center on Health Effects of Early Environmental Exposures

## JOURNAL EDITORIAL BOARDS

2025 – Present	Journal of Urban Health, Editorial Board Member
2024 – 2025	Environmental Health Perspectives, Associate Editor
2023 – 2024	Environmental Health Perspectives, Editorial Review Board
2022 – 2023	Environmental Research, Associate Editor
2019 – Present	Current Environmental Health Reports, Section Co-Editor, Methods in Environmental Epidemiology

## JOURNAL REFERREE

Referee	Nature, PNAS, Environmental Health Perspectives, Nature Medicine, Epidemiology, American Journal of Epidemiology, JAMA Psychiatry, American Journal of Respiratory And Critical Care Medicine, Nature Aging, Environmental Health, Journal of Exposure Science and Environmental Epidemiology, Biometrics, Atmospheric Environment, International Journal of Environmental Research and Public Health, Environmental Pollution, BMJ open, Occupational and Environmental Medicine, Scientific Reports, Women's Health Issues, Urban Science, International Journal of Hygiene and Environmental Health, Environmental Research, Pediatrics and Perinatal Epidemiology, Environment International, Environmental Science & Technology, European Journal of Neurology, Science of the Total Environment, Journal of Alzheimer's Disease
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## ORGANIZER OF INTERNATIONAL &amp; REGIONAL CONFERENCES

ISEE NAC 2023	Environmental Justice and Climate Connections (Co-organized with Drs. Joan Casey and Carrie Breton)
ISEE 2021	Promoting Environmental Health and Equity in a Shifting Climate (Co-organized with Drs. Andrea Baccarelli and Joan Casey)

## ORGANIZER OF SYMPOSIA (NATIONAL AND INTERNATIONAL CONFERENCES)

ISEE 2022	Multimodal environmental influences on children and adolescent's brain, cognitive, and mental health outcomes (Co-organized with Dr. Amy Margolis)
AAAS 2021	Clearing the air: the case for lowering US PM <sub>2.5</sub> standards (Co-organized with Dr. Joan Casey)
ISEE 2020	Novel Methods for Studying the Epidemiology of Exposure to Mixtures: NIEHS's 2019 PRIME Program (Co-organized with Dr. Bonnie Joubert)
ISEE 2020	From the University Door to the Congress Floor: How We Translate Science into Policy (Co-organized with Dr. Joan Casey)
ISEE 2020	Women's Networking Event (Co-organized with Dr. Joan Casey)
ISEE 2019	The importance of engaging in public policy in the age of anti-science (Co-organized with Drs. Joan Casey and Tracey Woodruff)
ISEE 2018	Critical Exposure Windows, Selection Biases and Novel Methods: Methodological Complexities in Reproductive Environmental Epidemiology (Co-organized with Dr. Marc Weisskopf)

## DEPARTMENTAL AND UNIVERSITY COMMITTEES

2025 – present	Member, Brown SPH Epidemiology Doctoral Admissions Committee
2024 – 2025	Director, Climate and Health: Action and Research for Transformational Change (CHART) Center (P20 AG093975)
2022 – 2025	Co-Director, Study Design and Data Analytics Facility Core, NIEHS Center for Environmental Health and Justice in Northern Manhattan (P30 ES009089)
2021 – 2024	Director, Mailman EHS PhD Program
2021 – 2022	Member, Mailman EHS Faculty Cluster-Hire Search Committee (5 positions)
2020 – 2021	Co-Director, Mailman EHS PhD Program
2019 – present	Data Science Faculty Advisory Committee
2019	Member, Mailman Biostatistics Chair Search Committee
2018 – 2021	Mailman-wide Admissions Committee for Masters degrees
2018 – 2019	Member, Mailman EHS Faculty Search Committee (3 positions)

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**Professional Organizations, Societies, and Affiliated Membership**

## MEMBERSHIPS AND POSITIONS

2025 – Present	Co-Chair, International Society for Environmental Epidemiology Armed Conflict & Environmental Health Special Interest Group (together with Dr. Manolis Kogevinas)
2025 – Present	Councilor, International Society for Environmental Epidemiology Executive Council
2019 – 2022	Co-Chair, International Society for Environmental Epidemiology North American Chapter (together with Dr. Joan Casey)
2018 – Present	Member, Columbia University Data Science Institute (DSI)
2017 – Present	Member, Columbia NIEHS Center for Environmental Health in Northern Manhattan
2011 – Present	Member, International Society for Environmental Epidemiology (ISEE)

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**Fellowship and Grant Support**

## ACTIVE RESEARCH FUNDING, PRINCIPAL INVESTIGATOR

09.2024 – 08.2027	NIA P20 AG093975 (Kioumourtzoglou, Berhane, Shaman) <i>Climate and Health: Action and Research for Transformational Change (CHART)</i> Role: MPI, Contact PI (2024 – 2025)
02.2024 – 11.2028	NIEHS R01 ES035617 (Hilpert, Kioumourtzoglou, Navas-Acien) <i>Air Pollution and Cardiovascular Disease in American Indian Communities</i> Role: MPI
08.2020 – 05.2026	NIEHS R01 ES029943 (Kioumourtzoglou, Weisskopf, Deyssenroth) <i>Air Pollution and Pregnancy Loss</i> Role: MPI, Contact PI (2020 – 2025)

## ACTIVE RESEARCH FUNDING, CO-INVESTIGATOR

- 09.2022 – 07.2027 NIEHS R01 ES034373 (Zanobetti)  
*Characterizing the link between multiple environmental exposures and Parkinson's disease exacerbation*  
Role: Co-I
- 06.2022 – 03.2027 NIEHS R01 ES032870 (Lugo-Candelas)  
*Prenatal air pollution and neurodevelopment: a longitudinal neuroimaging study of mechanisms and early risk for ADHD in Puerto Rican children*  
Role: Co-I
- 09.2021 – 05.2026 NIEHS R01 ES032296 (Margolis)  
*Prenatal Environmental Mixtures, Cognitive Control and Reward Processes, And Risk for Psychiatric Problems in Adolescence*  
Role: Co-I
- 07.2021 – 06.2026 NIEHS R01 ES033190 (Ananth)  
*Ambient Air Pollution, Weather, and Placental Abruption (APWA)*  
Role: Co-I
- 07.2021 – 06.2029 NIEHS R35 ES031688 (Baccarelli)  
*Extracellular vesicles in Environmental Epidemiology Studies of Aging*  
Role: Co-I
- 04.2020 – 01.2026 NIA R01 AG066793 (Zanobetti)  
*National Cohort Studies of Alzheimer's Disease, Related Dementias and Air Pollution*  
Role: Co-I (Subcontract PI)

## PAST SUPPORT, PRINCIPAL INVESTIGATOR

- 03.2020 – 12.2025 NIEHS R01 ES030616 (Kioumourtzoglou, Dominici)  
*Integrating Air Pollution Prediction Models: Uncertainty Quantification and Propagation in Health Studies*  
Role: MPI, Contact PI
- 04.2023 – 06.2023 NIEHS R13 ES035302 (Kioumourtzoglou, Casey)  
*2023 Regional ISEE NAC Meeting, Corvallis, OR*  
Role: MPI, Contact PI
- 01.2018 – 12.2022 NIEHS R01 ES028805 (Kioumourtzoglou)  
*Principal Component Pursuit to Assess Exposure to Environmental Mixtures in Epidemiologic Studies*  
Role: PI

- 04.2018 – 03.2021 NIEHS R21 ES028472 (Kioumourtzoglou)  
*Air Pollution Exposure and Risk of Amyotrophic Lateral Sclerosis (ALS)*  
Role: PI
- 12.2016 – 11.2017 Calderone Research Prize Award for Junior Faculty (Kioumourtzoglou)  
*A New Method to Assess Multi-pollutant Exposures in Environmental Epidemiologic Studies*  
Role: PI
- 09.2011 – 05.2013 EPA STAR Graduate Fellowship (Kioumourtzoglou)  
*Effect of Exposure Measurement Error in Air Pollution Studies: Two Case Studies*  
Role: PI

## PAST SUPPORT, CO-INVESTIGATOR

- 04.2023 – 06.2025 NIEHS P30 ES009089 (Perzanowski)  
*Center for Environmental Health and Justice in Northern Manhattan (CEHJNM)*  
Role: Co-Director of the Study Design and Data Science Core
- 09.2022 – 08.2025 Department of Army W81XWH2210626 (Re)  
*Novel exposomics and extracellular vesicle biomarkers to unravel gene-environment interactions and mechanisms of neurodegeneration in Parkinson's disease*  
Role: Co-I
- 02.2020 – 10.2025 NIEHS R01 ES089971 (Re)  
*Brain-derived extracellular vesicles as a novel source of biomarkers for disease progression and environmental exposure in ALS*  
Role: Co-I
- 02.2020 – 11.2024 NIEHS R24 ES029489 (Herbstman, Perera)  
*To Maintain and Enrich Resource Infrastructure for Existing Environmental Epidemiology Cohorts*  
Role: Co-I
- 04.2021 – 03.2025 NIA RF1 AG071024 (Casey)  
*Short and long-term consequences of wildfires for Alzheimer's disease and related dementias*  
Role: Co-I
- 08.2020 – 05.2025 NASA 80NSSC21K0509 (Fiore)  
*Investigating Spatiotemporal Patterns at the Nexus of Air Pollution, Climate and Public Health over the Northeast USA*  
Role: Co-I

- 09.2022 – 06.2025 NIEHS R01 ES034433 (Jack, Lee)  
*Early life household air pollution, metal composition and cardiovascular health: Evidence from GRAPHS*  
Role: Co-I
- 03.2022 – 12.2025 NIEHS R01 ES032818 (Herbstman, Mason)  
*Prenatal Traffic-Related Air Pollutants, Placental Epitranscriptomics, and Child Cognition*  
Role: Co-I
- 04.2024 – 03.2025 Wellcome Trust KHRC CU23-1300 (Poku Asante)  
*Building a climate cohort to monitor health impacts of climate change in Ghana*  
Role: Co-I
- 08.2020 – 04.2024 NIDDK R01 DK123285 (Gamble)  
*Metabolomic and Neutrigenetic Effects of Folic Acid Supplementation and Unmetabolized Folic Acid*  
Role: Co-I
- 09.2018 – 03.2024 NIEHS R01 ES029974 (Parvez)  
*Effect of Early-Life Exposure to Metal Mixtures on Lung Function and Mitochondrial DNA in Children*  
Role: Co-I
- 09.2020 – 08.2023 NIEHS R01 ES030945 (Gamble)  
*Interdisciplinary Approaches for Understanding the Metabolic Effects of Arsenic and Manganese*  
Role: Co-I
- 07.2019 – 06.2021 NIEHS R21 ES030093 (Hilpert, Boehme)  
*Crowd-Sourced Traffic Data: Predicting Air Pollution and Ischemic Stroke*  
Role: Co-I
- 07.2019 – 06.2022 AHA 19TPA34830085 (Zhang)  
*Urban Exposome and Cardiovascular Health in the CARDIA Longitudinal Study*  
Role: Co-I (Subcontract PI)
- 01.2019 – 12.2020 Columbia University Data Science Institute (Ruggeri)  
*Nudging NY: Using Data Science to Increase Healthcare Access in Underserved Communities*  
Role: Co-I
- 09.2018 – 09.2020 CDC-ATSDR R01 TS000285 (Re, Schneider)  
*Novel Extracellular Vesicle and Molecular Biomarkers of Environmental Exposure and Disease Progression in ALS*  
Role: Co-I

- 09.2016 – 06.2020 HEI 4953 (Dominici, Zanobetti)  
*Assessing Adverse Health Effects of Long-Term Exposure to Low Levels of Ambient Pollution*  
 Role: Co-I (Subcontract PI)
- 09.2018 – 02.2020 NIEHS R01 ES024332-S1 (Zanobetti)  
*Cardiovascular Health and Air Pollution: A National Study*  
 Role: Co-I (Subcontract PI)
- 12.2017 – 06.2020 NIMHD R21 MD012451 (Boehme)  
*Racial Disparities, Influenza-Like Illness and the Association between Short-term Exposure to Ambient Air Pollution and Cardiovascular Outcomes*  
 Role: Co-I
- 09.2017– 03.2018 NIEHS P30 ES009089-S2 (Baccarelli)  
*Hourly Temperature Dynamics from Satellites and Risk of Cardiovascular Events*  
 Role: Supplement Project Lead

## Teaching Experience

### INSTRUCTOR

- Spring 2019 – 2022, 2024, 2025 Advanced Analytic Methods in Environmental Health Sciences  
 Spring 2018 Journal Club in Environmental Health

### DSI CAPSTONE FACULTY MENTOR

- Fall 2020 Data Science Capstone & Ethics, Co-mentor: Dr. Vondrick  
 Fall 2019 Data Science Capstone & Ethics, Co-mentor: Dr. Paisley

### GUEST LECTURES, COLUMBIA UNIVERSITY

- Spring 2017 – 2022 Environmental Determinants of Human Health II  
 Spring 2020 – 2021 Introduction to Data Science for Environmental Health  
 Fall 2019 – 2020 Environment, Health, and Justice  
 Spring 2017 Journal Club in Environmental Health Sciences  
 Spring 2017 Journal Club in Molecular Epidemiology

### GUEST LECTURES, HARVARD UNIVERSITY

- Fall 2021 SBS360 – Maternal and Child Health Seminar  
 Spring 2015 – 2022 ID 215 – Environmental & Occupational Epidemiology  
 Summer 2015 – 2020 ID 215 – Environmental & Occupational Epidemiology  
 Spring 2016 EH 269 – Exposure Assessment for Environmental & Occupational Epidemiology

### GUEST LECTURES, OTHER

- Spring 2024 ISEE Online course: Introduction to Environmental Epidemiology  
 Spring 2025 ISEE Online Mixtures Course

## WORKSHOP DEVELOPMENT AND PARTICIPATION

Summer 2018 – 2024	SHARP Training @ Columbia's Mailman School Two-day Environmental Mixtures Workshop Role: Director and Instructor
Summer 2023	SHARP Training @ Columbia's Mailman School Two-day Workshop on Bayesian Statistics for Environmental Health Role: Instructor

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**Advising and Mentorship**

## POST-DOCTORAL &amp; ASSOCIATE RESEARCH SCIENTISTS, INVESTIGATORS

2024 – 2025	Vrinda Kalia (Associate Research Scientist at Columbia MSPH)
2023 – Present	Vijay Kumar (Investigator)
2021 – 2024	Gali Cohen (part-time)
2021 – Present	Jaime Benavides (Investigator)
2021 – 2024	Roheeni Saxena (co-mentored with Dr. Re; Lecturer, University of New Haven)
2020 – 2023	Robbie M Parks (Assistant Professor at Mailman EHS)
2020 – 2022	Yanelli Núñez (Scientist at PSE)

## DOCTORAL ADVISEES

2027 (Expected)	Heather McBrian, co-mentored with Dr. Casey
2026 (Expected)	Sabah Usmani, co-mentored with Dr. Jack
2025	Tanya Butt, co-mentored with Dr. Re (post-doc at Columbia MSPH)
2025	Vivian Do, co-mentored with Dr. Casey (post-doc at the University of Utah)
2024	Mengyuan (Maggie) Li, co-mentored with Dr. Navas-Acien (Air Resources Scientist at CARB)
2023	Jenni Shearston, co-mentored with Dr. Hilpert (Assistant Professor at University of Colorado)
2022	Sebastian Rowland (Scientist at PSE)
2021	Elizabeth Gibson, co-mentored with Dr. Herbstman (Data Scientist at Netflix)
2020	Yanelli Núñez, co-mentored with Dr. Re (Scientist at PSE)
2020	Mike He (Investigator at Mt. Sinai)

## DOCTORAL COMMITTEE MEMBER

2024 – present	Lauren Wilner (UW)
2024 – present	Antonio Saporito (NYU)
2019 – 2021	Vrinda Kalia
2019 – 2022	Stephen Lewandowski
2018 – 2021	Nicole Comfort
2018 – 2020	Sarah Kramer

## MPH/MS STUDENTS, THESIS SUPERVISOR

2021	Rachel Tao
2019	Lyuou Zhang
2019	Erin Kawazu
2019	Vivian Do
2019	Sydney Wolchok
2018	Unnati Mehta
2018	Jessica Singh

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**Publications**

Underlined are current or former students and post-doctoral fellows.

## ORIGINAL, PEER-REVIEWED ARTICLES

155. Kalia V, Manz KE, Benavides J, Song S, Vollmer BL, Yan B, Goldsmith J, Pennell KD, Stern Y, **Kioumourtzoglou M-A**, Miller GW, Habecki C, Gu Y, "Mixture of organic pollutants is associated with cognitive aging", *Alzheimer's and Dementia*, In Press, 2026
154. Choi HM, Cardona B, **Kioumourtzoglou M-A**, Laden F, Hart J, Weiskopf MG. Perinatal exposure to gaseous pollutants and autism spectrum disorder in children: A nested case-control study in the Nurses' Health Study II cohort, *Environ Sci Pollut Res Int*, 2026
153. Spriggs R, Lynch VD, Lu Y, Jiang L, Lieberman-Cribbin W, Anderson GB, Keyes KM, **Kioumourtzoglou M-A**, Hernández D, Nigra AE, Parks RM, "Tropical cyclone exposure and psychoactive drug-related death rates in the United States", *JAMA Network Open*, In Press, 2025
152. Brooks JL, Weaver A, Zou B, Li M, Reese JA, Ward-Caviness CK, Yracheta J, Racette SB, Malloy K, Zhang Y, Franceschini N, Corbie GM, **Kioumourtzoglou M-A**, Currin Fallon C, Navas-Acien A, "Air Pollution Levels in American Indian Communities in the Great Plains and Southwest: The Strong Heart Study", *Atmospheric Pollution Research*, 102860 (2025)
151. Leung M, Im S, Rowland ST, Papatheodorou S, Coull BA, **Kioumourtzoglou M-A**, Weiskopf WG, Wilson A, "Prenatal exposure to wildfire PM<sub>2.5</sub> and pregnancy loss in Colorado, USA, 2007-2018", *International Journal of Epidemiology*, In Press, 2025
150. McBrien H, Rudolph KE, Casey JA, Mayeda E-R, Inose S, **Kioumourtzoglou M-A**, "Pitfalls of using negative control outcomes in environmental epidemiology", *Curr Envir Health Rpt* 12, 47, (2025)
149. Mayer M, Domingo-Relloso A, **Kioumourtzoglou M-A**, Navas-Acien A, Coull BA, Valeri L, "Comparison of Methods for Analyzing Environmental Mixtures Effects on Survival Outcomes", *Curr Envir Health Rpt* 12, 40 (2025)
148. McBrien H, Mork D, Do V, **Kioumourtzoglou M-A**, Casey JA, "The association between power outages and cardiovascular and respiratory hospitalizations among US Medicare beneficiaries in 2018: A case-crossover study", *PLOS Medicine*, In Press, 2025

147. Heo S, Leung M, **Kioumourtzoglou M-A**, Bell ML, "Critical windows of gestational exposure to fine particulate matter (PM<sub>2.5</sub>) and pregnancy loss in New Jersey, USA", *AJE Advances: Research in Epidemiology*, In Press, 2025
146. Li W, Wu H, Goldsmith J, Glabonjat RA, Ilievski V, Balac O, Slavkovich V, Pinto-Pacheco B, Lin X, Parvez F, Jackson GL, Siddique AB, Nasir Uddin M, Islam T, Martinez-Morata I, Navas-Acien A, Niedzwiecki MM, **Kioumourtzoglou M-A**, Pierce BL, Graziano JH, Bottiglieri T, Walker DI, Gamble MV, "Metabolic Signature of Arsenic Exposure and Metabolism: The Folic Acid and Creatine Trial", *Environmental Science & Technology*, In Press, 2025
145. Parks RM, Flynn L, Gu Z, Braun D, Cerna-Turoff I, Tuholske C, Dominici F, Lindert J, **Kioumourtzoglou M-A**, "Higher temperatures are associated with increased interpersonal and self-inflicted violence-related Medicaid hospital visits in the United States", *Communications Sustainability*, 1 (4), 2026
144. Benavides J, Cohen J, Chillrud L, Cohen G, DeSerisy M, Ramphal B, Goldsmith J, **Kioumourtzoglou M-A**, Margolis AE, "Prenatal environmental risk for adolescent attention, thought, and substance use problems: a mixtures approach to co-exposure and psychiatric comorbidities", *Environmental Epidemiology*, In Press, 2025
143. Joubert RB, Palmer G, Dunson D, **Kioumourtzoglou M-A**, Coull BA, "Workflow for Statistical Analysis of Environmental Mixtures", *EHP*, In Press, 2025
142. McBrien H, Mork D, **Kioumourtzoglou M-A**, Casey JA, "Assessing bias in measuring power outage exposure with simulations", *Environmental Epidemiology*, In Press, 2025
141. Do V, McBrien H, Edmondson D, **Kioumourtzoglou M-A**, Casey JA, "The impact of power outages on cardiovascular hospitalizations among Medicare Fee-for-Service enrollees in New York State, 2017-2018", *Epidemiology*, In Press, 2025
140. Do V, McBrien H, Teigen L, Childs ML, **Kioumourtzoglou M-A**, Casey JA, "A national study on the impact of wildfire smoke on cause-specific hospitalizations among Medicare enrollees with Alzheimer's disease and related dementias, 2006-2016", In Press, *Fire*, 2025
139. Meltzer GY, Anderson GB, Xie X, Casey JA, Schwartz J, Bell ML, Ornelas Van Horne Y, Fox J, **Kioumourtzoglou M-A**, Parks RM, "Disruption to Test Scores after Hurricanes in the United States", In Press, *Environmental Research: Health*, 2025
138. Baizer L, . . . , **Kioumourtzoglou M-A**, . . . , Purcell S, "Big Data Approaches for Novel Mechanistic Insights on Disorders of Sleep and Circadian Rhythms: a Workshop Summary", In Press, *Sleep*, 2025
137. Dong S, Braun D, Wu X, Yitshak-Sade M, Blacker D, **Kioumourtzoglou M-A**, Schwartz J, Mork D, Dominici F, Zanobetti A, "The impacts of air pollution on mortality and readmission among Medicare beneficiaries with Alzheimer's disease and Alzheimer's disease-related dementias: a national retrospective cohort study in the USA", In Press, *Lancet Planetary Health*, 2025
136. Benavides J, Carrillo-Gallegos C, Kumar V, Rowland ST, Chillrud LG, Adeyeye T, Paisley J, Coull BA, Henze DK, Martin RV, Fiore AM, **Kioumourtzoglou M-A**, "bneR: A collaborative workflow for air pollution exposure modeling and uncertainty characterization using the Bayesian Nonparametric Ensemble", In Press, *Journal of Environmental Management*, 2025

135. Leung M<sup>†</sup>, Rowland ST<sup>†</sup>, Modest AM, Hacker MR, Papatheodorou S, Wei Y, Schwartz J, Coull BA, Wilson A, **Kioumourtzoglou M-A**, Weisskopf MG, "A novel approach for inferring effects on pregnancy loss", American Journal of Epidemiology, In Press, 2024  
<sup>†</sup>The authors contributed equally
134. Do V, Parks RM, Casey JA, Goin DE, **Kioumourtzoglou M-A**, "Use, limitations, and future directions of mixtures approaches to understand the health impacts of weather- and climate change-related exposures, an under-studied aspect of the exposome", Exposome, 2024; osae007
133. Lynch VD, Sullivan J, Flores A, Aggarwal S, Nethery RC, **Kioumourtzoglou M-A**, Nigra AE, Parks RM, "Large floods drive changes in cause-specific mortality in the United States", Nature Medicine, In Press, 2024
132. Martinez-Morata I, Wu H, Galvez-Fernandez M, Ilievski V, Bottiglieri T, Niedzwiecki MM, Goldsmith J, Jones DP, **Kioumourtzoglou M-A**, Pierce B, Walker DI, Gamble MV. "Metabolomic Effects of Folic Acid Supplementation in Adults: Evidence from the FACT Trial", J Nutr. 2024 Feb;154(2):670-679
131. Shen Y, Domingo-Relloso A, Kupsco A, **Kioumourtzoglou M-A**, . . . , Feng Gao, "AESurv: autoencoder survival analysis for accurate early prediction of coronary heart disease", Briefings in Bioinformatics, Volume 25, Issue 6, November 2024, bbae479
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#### NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE REPORTS

2. Exploring Military Exposures and Mental, Behavioral, and Neurologic Health Outcomes Among Post-9/11 Veterans. Washington, DC: The National Academies Press. 2025 (Role: Contributor)
1. Reassessment of the Department of Veterans Affairs Airborne Hazards and Open Burn Pit Registry. Washington, DC: The National Academies Press. 2022 (Role: Contributor)

#### PEER-REVIEWED CONFERENCE AND WORKSHOP PAPERS (WITH PROCEEDINGS)

4. Kumar V, Benavides J, Carrillo-Gallegos C, Speyer G, **Kioumourtzoglou M-A**, "Scalable Bayesian Nonparametric Ensemble (BNE) for Spatio-temporal Air Pollution Predictions using High-Performance Computing," 2025 IEEE High Performance Extreme Computing Conference (HPEC), Wakefield, MA, USA, 2025
3. Paisley J, Rowland ST, Liu J, Coull BA, **Kioumourtzoglou M-A**, "Bayesian Nonparametric Model Averaging Using Scalable Gaussian Process Representations", 2022 IEEE International Conference on Big Data (19.2% acceptance rate)
2. Liu JZ, Paisley J, **Kioumourtzoglou M-A**, Coull BA. "Accurate Uncertainty Estimation and Decomposition in Ensemble Learning", *NeurIPS* (In *Advances in Neural Information Processing Systems*; 8950-8961), Vancouver, Canada, 2019 (poster; 21% acceptance rate)
1. Liu JZ, Paisley J, **Kioumourtzoglou M-A**, Coull BA. "Adaptive and calibrated ensemble learning with dependent tail-free process", *BNP Workshop @ NeurIPS*, Montreal, Canada, 2018 (poster)

## EDITORIALS &amp; COMMENTARIES

5. Casey JA, Marshall B, **Kioumourtzoglou M-A**, "Climate hazards and the opioid overdose epidemic", *AJPH*, In Press, 2026
4. **Kioumourtzoglou M-A**, "Residential Mobility During Pregnancy and Between Births: Implications for the Interpretation of Findings in Environmental Epidemiology", *Paediatric and Perinatal Epidemiology*, In Press, 2025
3. Kogevas M, **Kioumourtzoglou M-A**, Aker A, Houdou A, Grady S, Menouni A, Oulhote Y, Ritz B, Al-Delaimy W, Wells EM, on behalf of the *ISEE Armed Conflict and Environmental Health Special Interest Group*, "Why Scientists Must Engage: Environmental Health in Times of Armed Conflict", *Int J Public Health*, In Press, 2025
2. Casey JA, **Kioumourtzoglou M-A**, "Long-term Exposure to Wildfire Particles and Adverse Health: Clearing the Air on Current Challenges and Opportunities", *Journal of the American College of Cardiology*, In Press, 2025
1. **Kioumourtzoglou M-A**, "Identifying Modifiable Risk Factors of Mental Disorders: The Importance of Urban Environmental Exposures", *JAMA Psychiatry*, 2019;76(6):569-570

## PRE-PRINTS

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15. Joubert BR, Palmer G, Dunson D, **Kioumourtzoglou M-A**, Coull BA, "Environmental Mixtures Analysis (E-MIX) Workflow and Methods Repository", medRxiv 2024.12.20.24318087
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#### BOOKS, BOOK CHAPTERS, AND OTHER REPORTS

2. McPhearson, T., Towers, . . . , **Kioumourtzoglou M-A**, . . . , J., Zoraghein, H. “New York City Town+Gown Climate Vulnerability, Impact, and Adaptation Analysis Final Report”. New York City Mayor’s Office of Climate and Environmental Justice (April 2024)
1. Peters S, Visser AE, Weisskopf MG, **Kioumourtzoglou M-A**, Vermeulen R, “Metals and Neurodegeneration” (Chapter 40) in: Oxford Textbook of Neurologic and Neuropsychiatric Epidemiology. Edited by Brayne C, Feigin V, Launer L, and Logroscino G. Oxford University Press (expected publication date: November 2020)

#### OTHER PRINT

1. Shearston JA, Upson K, Gordon M, Do V, Balac O, Nguyen K, Yan B, **Kioumourtzoglou M-A**, Schilling K, “Communicating risk in the face of data gaps: toxic metals in tampons”, Correspondence in Environment International, In Press, 2024

## Presentations

### INVITED PRESENTATIONS

40. "AI & Data Science – Beyond the Buzzwords", co-presented with Dr. Joan Casey, CAFE State of the Science Webinar Series, October 2025
39. "From Heat to Wildfires: Evolving Stories in Climate and Health Research", Yale School of Public Health (YSPH) Climate Change and Health Seminar Series, October 2025
38. "Beyond the Buzzwords: Data Science, Machine Learning, and AI in Environmental Epidemiology", Plenary Presentation, ISES-ISEE 2025, Atlanta, GA, August 2025
37. "Artificial Intelligence & Causal Inference in Environmental Health Studies", HEI meeting, Austin, TX, May 2025
36. "Tales of Climate and Health Research: Extreme Heat, Tropical Cyclones, and Wildfires", UT Austin CHEER Seminar Series, Austin, TX, March 2025
35. "Code Sharing, Code Checking, and Good Practices for Research", T32 Trainee × NIEHS P30 Center Seminar, Columbia University Mailman School of Public Health, New York, NY, January 2025
34. "Tales of Environmental Mixtures: Exposure Pattern Recognition", University of Washington Env H 580 Seminar Series, Seattle, WA, October 2024
33. "Climate & Health Research: From Analysis to Action", LEAP (Learning the Earth with Artificial Intelligence and Physics) Year 4 || Annual Meeting, Briarcliff Manor, NY, October 2024
32. "Overview of Issues in the Analysis of Mixtures", Workshop on Applied Epidemiology and Environmental Health, CDC, Atlanta, August 2024
31. "Climate & Health Research: Challenges and Future Directions", EPH Doerr Seminar, Stanford University, June 2024
30. "Advancing Climate and Health Research: Applications and Conceptual Challenges", Dean's Lecture Series on Climate Change and Health in the Gulf South: Community, Research, Design, and Action, Tulane University, New Orleans LA, April 2024
29. "Short-term effects of temperature and temperature variability on cardiovascular outcomes", Plenary Session at the Climate and Health Summit, University of Louisville, Louisville KY, April 2024
28. "Heat Impacts on the Health of New York State Residents", Climate Change and Urban Health Webinar Series, Drexel University, April 2024
27. "Temperature Impacts on Human Health", Climate Science and Environmental Justice: What it Means for Behavioral Medicine, Academy of Behavioral Medicine Research, hosted by Dr. Puterman, February 2024
26. "The causal role of indoor air when evaluating outdoor air pollution and potential measurement error", Health Effects Institute Workshop the State of Science for Particulate Matter Health Effects, Arlington, VA, December 2023

25. "Air Pollution and Neurodegeneration", SORS/WomenInBSC, Barcelona Supercomputing Center, Barcelona, Spain, hosted by Dr. Oriol Jorba, May 2023
24. "Future directions in tropical cyclone epidemiology, an emerging climate and health field", 2023 USA – European Exposome Symposium, Brescia, Italy, April 2023
23. "Recent advances in air pollution epidemiology, climate health, and other stories", NCD & Environ Seminar Series, ISGlobal, Barcelona, Spain, December 2022
22. "Recent Advances in Methods to Assess Health Effects of Environmental Mixtures", Complex Exposures in Breast Cancer: Unraveling the Role of Environmental Mixtures Virtual Workshop, NIEHS, August 2022
21. "Facilitating Transparency and Communication of Results of Chemical Mixtures Studies", Workshops to Support EPA's Development of Human Health Assessments: Artificial Intelligence and Open Data Practices in Chemical Hazard Assessment, National Academies of Sciences, Engineering, and Medicine, May 2022
20. "Air Pollution & Neurodegeneration", [Columbia] University Seminar: The Future of Aging Research, March 2022
19. "Evidence from the US — Air pollution and mortality in the Medicare population", Brussels Meeting on Air Pollution and Health: Recent Advances to Inform the European Green Deal, HEI/WHO/ISEE/ERS, January 2020
18. "Health Studies of Air Pollution and Socioeconomic Status", National Institute of Aging, Baltimore, MD, November 2019
17. "Overview of Methods to Assess Exposures to Mixtures in Health Studies", H3Africa Webinar, Environmental Health Working Group, June 2019
16. "Machine Learning for Chemical Mixtures in Epidemiology", Emerging Science for Environmental Health Decisions Workshop: Leveraging Artificial Intelligence and Machine Learning to Advance Environmental Health Research and Decisions, National Academies of Sciences, Engineering, and Medicine, Washington, DC, June 2019
15. "Hourly Temperature Dynamics from Satellites and Risk of Cardiovascular Events", EHSCC Supplement Webinar, May 2019, co-presented with Dr. Allan Just
14. "Commonly-Used Methods for Analyzing Exposure to Mixtures in Environmental Epidemiology: A Few Examples", PRIME Program Meeting, NIEHS, RTP NC, April 2019
13. "Exposure to DES during Pregnancy and Multigenerational Neurodevelopmental Deficits"; this webinar was part of a series sponsored by the EDC Strategies Partnership, which is coordinated and sponsored by Commonwealth's Collaborative on Health and the Environment, March 2019
12. "Traffic-related Air Pollution and Pregnancy Loss", Environmental Health Sciences Seminar, Yale School of Public Health, hosted by Dr. Nicole Deziel, December 2018
11. "Association of exposure to DES during pregnancy with multigenerational neurodevelopmental deficits", Columbia University's Psychiatric Training Program (PET) Seminar Series, hosted by Dr. Sharon Schwartz, October 2018

10. "Traffic-related Air Pollution and Pregnancy Loss", Environmental Statistics Seminar, Department of Biostatistics, Harvard T.H. Chan School of Public Health, seminar organizer Dr. Rachel Nethery, April 2018
9. "The impact of air pollution exposure on neurological outcomes and mood disorders", Environmental Medicine and Public Health Seminar Series, Icahn School of Medicine and Mount Sinai, hosted by Dr. Manish Arora, January 2018
8. "Environmental Mixtures Methods for Targeted Interventions and Policymaking", Young Investigator Presentation, Environmental Health Sciences Core Center Annual Meeting, June 2017
7. "New Directions in Air Pollution Epidemiology", Department of Environmental Health Sciences, Mailman School of Public Health, Columbia University, hosted by Dr. Patrick Kinney, December 2015
6. "Air Pollution and Mental Health", ERC Seminar Series, Department of Environmental Health, Harvard T.H. Chan School of Public Health, hosted by Dr. Ann Backus, April 2015
5. "New Approaches in Air Pollution Health Studies: Multi-pollutant Exposures", UC Berkeley School of Public Health, hosted by Dr. Kirk Smith, March 2015
4. "New Approaches in Air Pollution Health Studies: Multi-pollutant Exposures", UCLA Fielding School of Public Health, hosted by Dr. Beate Ritz, September 2014
3. "Using Personal Exposure Data to Assess Exposure Measurement Error in PM<sub>2.5</sub> Health Effect Studies?", presented as part of the "Exposure measurement error in air pollution studies: Consequences and correction methods" Symposium, ISEE 2014 Conference, Seattle, WA, August 2014
2. "Exposure Measurement Error in PM<sub>2.5</sub> Health Effects Studies", Environmental Statistics Seminar, Department of Biostatistics, Harvard T.H. Chan School of Public Health, hosted by Dr. Francesca Dominici and Dr. Kyu Ha Lee, March 2013
1. "Multi-pollutant Exposures and Hospital Admissions among the Elderly", Department of Preventive Medicine, The Mount Sinai Hospital, hosted by Dr. Philip Landrigan, March 2012