

CURRICULUM VITAE

Marianthi-Anna Kioumourtzoglou

722 W 168th Street, #1104B
New York, NY 10032
mk3961@cumc.columbia.edu

Date of Preparation

January 5, 2022

Academic Appointments / Work Experience

- 09.2016 – Present **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

Honors and Awards

2021 One of the 35 NIEHS papers of the year for 2021 (out of 3,942)
(publication # 67)

2021 May paper of the Month by NIEHS Environmental Factor
(publication # 67)

2021 Received special recognition as a “top-tier peer reviewer who went above and beyond in 2020” for EHP

2021 January paper of the Month by NIEHS Environmental Factor
(publication # 65)

2019 November paper of the Month by NIEHS Environmental Factor
(publication # 47)

2018 Best paper of the year, American Journal of Epidemiology
(publication # 31)

2018 Included in the 2018 list of best reviewers of the year, American Journal of Epidemiology

2018 August paper of the Month by NIEHS Environmental Factor
(publication # 26)

2018 Paper included in Environmental Health Perspectives’ (EHP) 2018 Journal Impact Factor Collection
(publication # 16)

Administrative Leadership, Professional and Academic Service

PROFESSIONAL SOCIETIES

2019 – Present Co-Chair, International Society for Environmental Epidemiology North American Chapter (together with Dr. Joan Casey)

COMMITTEES

2020 – Present National Academies of Science, Engineering, and Medicine’s Committee to *Re-assess the Department of Veterans Affairs Airborne Hazards and Open Burn Pit Registry*

GRANT REVIEW SERVICE

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 REFERREE

Referee	Nature, PNAS, Environmental Health Perspectives, 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 CONFERENCES

ISEE 2021	Promoting Environmental Health and Equity in a Shifting Climate (Co-organized with Drs. Andrea Baccarelli and Joan Casey)
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ORGANIZER OF SYMPOSIA (NATIONAL AND INTERNATIONAL CONFERENCES)

AAAS 2021	Clearing the air: the case for lowering US PM _{2.5} standards (Organized with Dr. Joan Casey)
ISEE 2020	Novel Methods for Studying the Epidemiology of Exposure to Mixtures: NIEHS's 2019 PRIME Program (Organized with Dr. Bonnie Joubert)
ISEE 2020	From the University Door to the Congress Floor: How We Translate Science into Policy (Organized with Dr. Joan Casey)
ISEE 2020	Women's Networking Event (Organized with Dr. Joan Casey)
ISEE 2019	The importance of engaging in public policy in the age of anti-science (Organized with Drs. Joan Casey and Tracey Woodruff)
ISEE 2018	Critical Exposure Windows, Selection Biases and Novel Methods: Methodological Complexities in Reproductive Environmental Epidemiology (Organized with Dr. Marc Weisskopf)

DEPARTMENTAL AND UNIVERSITY COMMITTEES

2021 – present	Director, EHS PhD Program
2021 – present	Member, EHS Faculty Cluster-Hire Search Committee (5 positions)
2020 – 2021	Co-Director, EHS PhD Program
2019 – present	Data Science Faculty Advisory Committee
2019	Member, Biostatistics Chair Search Committee
2018 – 2021	School-wide Admissions Committee for Masters degrees
2018 – 2019	Member, EHS Faculty Search Committee (3 positions)

Professional Organizations, Societies, and Affiliated Membership

MEMBERSHIPS AND POSITIONS

2019 – Present	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)

Fellowship and Grant Support

ACTIVE RESEARCH FUNDING, PRINCIPAL INVESTIGATOR

08.2020 – 05.2025	NIEHS R01 ES029943 (Kioumourtzoglou, Weisskopf) <i>Air Pollution and Pregnancy Loss</i> Role: MPI, Contact PI
03.2020 – 12.2024	NIEHS R01 ES030616 (Kioumourtzoglou, Dominici) <i>Integrating Air Pollution Prediction Models: Uncertainty Quantification and Propagation in Health Studies</i> Role: MPI, Contact PI
01.2018 – 12.2021	NIEHS R01 ES028805 (Kioumourtzoglou) <i>Principal Component Pursuit to Assess Exposure to Environmental Mixtures in Epidemiologic Studies</i> Role: PI

ACTIVE RESEARCH FUNDING, CO-INVESTIGATOR

09.2021 – 05.2026	NIEHS R01 ES032296 (Margolis) <i>Prenatal Environmental Mixtures, Cognitive Control and Reward Processes, And Risk for Psychiatric Problems in Adolescence</i> Role: Co-I
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- 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
- 04.2021 – 03.2026 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
- 04.2020 – 01.2025 NIA R01 AG066793 (Zanobetti)
National Cohort Studies of Alzheimer's Disease, Related Dementias and Air Pollution
Role: Co-I (Subcontract PI)
- 08.2020 – 04.2024 NIDDK R01 DK123285 (Gamble)
Metabolomic and Neutrigenic Effects of Folic Acid Supplementation and Unmetabolized Folic Acid
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
- 09.2018 – 08.2023 NIEHS R01 ES029974 (Parvez)
Effect of Early-Life Exposure to Metal Mixtures on Lung Function and Mitochondrial DNA in Children
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)

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

PAST SUPPORT, PRINCIPAL INVESTIGATOR

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

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
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Teaching Experience

INSTRUCTOR

- Spring 2019 – 2021 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 2020 – 2021 Introduction to Data Science for Environmental Health
Spring 2017 – 2021 Environmental Determinants of Human Health II
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 – 2021 ID 215 – Environmental & Occupational Epidemiology
Summer 2015 – 2020 ID 215 – Environmental & Occupational Epidemiology
Spring 2016 EH 269 – Exposure Assessment for Environmental & Occupational Epidemiology

WORKSHOP DEVELOPMENT AND PARTICIPATION

- Summer 2018 – 2021 SHARP Training @ Columbia's Mailman School
Two-day Environmental Mixtures Workshop
Role: Director and Instructor
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Advising and Mentorship

POST-DOCTORAL RESEARCH SCIENTISTS

2021 – Present	Jaime Benavides
2020 – Present	Robbie M Parks
2020 – Present	Yanelli Núñez

DOCTORAL ADVISEES

2026 (Expected)	Sabah Usmani
2025 (Expected)	Tanya Butt, co-mentored with Dr. Re
2025 (Expected)	Vivian Do, co-mentored with Dr. Casey
2024 (Expected)	Mengyuan (Maggie) Li, co-mentored with Dr. Navas-Acien
2023 (Expected)	Jenni Shearston, co-mentored with Dr. Hilpert
2022 (Expected)	Sebastian Rowland
2021	Elizabeth Gibson, co-mentored with Dr. Herbstman (currently Post-doc at HSPH Biostatistics)
2020	Yanelli Núñez, co-mentored with Dr. Re (currently Post-doc with me)
2020	Mike He (currently Post-doc at Mt. Sinai)

DOCTORAL COMMITTEE MEMBER

2019 – 2021	Vrinda Kalia
2019 – Present	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

Publications

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

ORIGINAL, PEER-REVIEWED ARTICLES

89. Li M, Hilpert M, Goldsmith J, Brooks JL, Shearston JA, Chillrud SN, Ali T, Umans JG, Best LG, Yracheta J, van Donkelaar A, Martin RV, Navas-Acien A, **Kioumourtzoglou M-A**, "Air pollution in American Indian vs. Non-American Indian communities, 2000–2018", AJPH, In Press, 2021

88. Nethery RC, Katz-Christy N, **Kioumourtzoglou M-A**, Parks RM, Schumacher A, Anderson GB, "Integrated causal-predictive machine learning models for tropical cyclone epidemiology", *Bio-statistics*, In Press, 2021
87. Upson K, Shearston JA, **Kioumourtzoglou M-A**, "Menstrual products as a source of environmental chemical exposure: A review from the epidemiologic perspective", *Current Environmental Health Reports*, In Press, 2021
86. Upson K, Shearston JA, **Kioumourtzoglou M-A**, "An epidemiologic review of menstrual blood loss as an excretion route for per- and polyfluoroalkyl substances", *Current Environmental Health Reports*, In Press, 2021
85. Zhang L[†], He MZ[†], Gibson EA, Perera F, Lovasi GS, Clougherty JE, Carrión D, Burke K, Fry D, **Kioumourtzoglou M-A**, "Evaluating the impact of the Clean Heat Program on air pollution levels in New York City", *Environmental Health Perspectives*, In Press, 2021
[†]The authors contributed equally
84. Rowland ST, Chillrud LG, Boehme AK, Wilson A, Rush J, Just AC, **Kioumourtzoglou M-A**, "Can Weather Help Explain 'Why Now?': The Potential Role of Hourly Temperature as a Stroke Trigger", *Environmental Research*, In Press, 2021
83. Kupsco A, Wu H, Calafat AM, **Kioumourtzoglou M-A**, Cantoral A, Tamayo-Ortiz M, Pantic I, Pizano-Zárate ML, Oken E, Braun JM, Deierlein AL, Wright RO, Téllez-Rojo MM, Baccarelli AA, Just AC, "Prenatal Maternal Phthalate Exposures and Trajectories of Childhood Adiposity from Four to Twelve Years", *Environmental Research*, 24 PartB:112111, 2022
82. Thomas EG, Braun D, **Kioumourtzoglou M-A**, Trippa L, Wasfy JH, Dominici F, "A Bayesian multi-outcome analysis of fine particulate matter and cardiorespiratory hospitalizations", *Epidemiology*, In Press, 2021
81. He MZ, Do V, Liu S, Kinney PL, Fiore A, Jin X, DeFelice N, Bi J, Liu Y, Insaf T, **Kioumourtzoglou M-A**, "Short-term PM_{2.5} and cardiovascular admissions in NY State: assessing sensitivity to exposure model choice", *Environmental Health*, 20 93, 2021
80. Yim G, Roberts A, Ascherio A, Wypij D, **Kioumourtzoglou M-A**, Weisskopf MG, "Association Between Periconceptional Weight of Maternal Grandmothers and Attention-Deficit/Hyperactivity Disorder in Grandchildren", *JAMA Netw Open*, 2021;4(7):e2118824
79. Yu Z, Peters S, van Boxmeer L, Downward G, Hoek G, **Kioumourtzoglou M-A**, Weisskopf MG, Hansen J, van den Berg L, Vermeulen R, "Long-term exposure to ultrafine particles and particulate matter constituents and amyotrophic lateral sclerosis", *Environmental Health Perspectives*, 129(9):097702, 2021
78. Nunez Y, Boehme AK, Li M, Goldsmith J, Weisskopf MG, Re DB, Navas-Acien A, van Donkelaar A, Martin RV, **Kioumourtzoglou M-A**, "Parkinson's Disease Aggravation in Association with Fine Particle Components in New York State", *Environmental Research*, 201:111554, 2021
77. Carrión D, Arfer KB, Rush J, Dorman M, Rowland ST, **Kioumourtzoglou M-A**, Kloog I, Just AC, "A 1-km hourly air-temperature model for 13 northeastern U.S. states using remotely sensed and ground-based measurements", *Environmental Research*, 200:111477, 2021

76. Jimenez MP, Shoaff J, **Kioumourtzoglou M-A**, Korrick S, Rifas-Shiman SL, Hivert M-F, Oken E, James P, "Early Life Exposure to Green Space and Mid-childhood Cognition in the Project Viva Cohort (Massachusetts, USA)", *American Journal of Epidemiology*, In Press, 2021
75. Daniel S, Kloog I, Factor-Litvak P, Levy A, Lunenfeld E, **Kioumourtzoglou M-A**, "Risk for preeclampsia following exposure to PM_{2.5} during pregnancy", *Environment International*, 156:106636, 2021
74. Rowland ST, Parks RM, Boehme AK, Goldsmith J, Rush J, Just AC, **Kioumourtzoglou M-A**, "The Association Between Ambient Temperature Variability and Myocardial Infarction in a New York-State-Based Case-Crossover Study: an Examination of Different Variability Metrics", *Environmental Research*, 197:111207, 2021
73. Elser H, Morello-Frosch R, Jacobson A, Pressman A, **Kioumourtzoglou M-A**, Reimer R, Casey JA, "Air pollution, methane super-emitters, and oil and gas wells in Northern California: the relationship with migraine headache prevalence and exacerbation", *Environmental Health*, 20 45, 2021
72. Yim G, Roberts A, Wypij D, **Kioumourtzoglou M-A**, Weisskopf MG. "Grandmothers' endocrine disruption during pregnancy, low birth weight, and preterm birth in third generation". *International Journal of Epidemiology*, dyab065, 2021.
71. Leung M, **Kioumourtzoglou M-A**, Raz R, Weisskopf MG, "Bias due to selection on live births in studies of environmental exposures during pregnancy: A simulation study", *Environmental Health Perspectives*, 129(4):047001, 2021
70. Daouda M, Henneman L, **Kioumourtzoglou M-A**, Gemmil A, Zigler C, Casey JA, "Association between county-level coal-fired power plant pollution and racial disparities in preterm births from 2000 to 2018", *Environmental Research Letters*, 16 034055, 2021
69. Nunez Y, Boehme AK, Weisskopf MG, Re DB, Navas-Acien A, van Donkelaar A, Martin RV, **Kioumourtzoglou M-A**, "Fine Particle Exposure and Clinical Aggravation in Neurodegenerative Diseases in New York State", *Environmental Health Perspectives*, 129(2):027003, 2021
68. Goin DE, Casey JA, **Kioumourtzoglou M-A**, Cushing LJ, Morello-Frosch R, "Environmental hazards, social inequality, and fetal loss: Implications of live-birth bias for estimation of disparities in birth outcomes", *Environmental Epidemiology*, 5(2):e131, 2021
67. Parks RM, Anderson GB, Nethery RC, Navas-Acien A, Dominici F, **Kioumourtzoglou M-A**, "Tropical cyclone exposure is associated with increased hospitalization rates in older adults", *Nature Communications* 12, 1545, 2021
**Selected as paper of the month by NIEHS's Environmental Factor*
66. Casey JA, **Kioumourtzoglou M-A**, Elser H, Walker D, Taylor S, Adams S, Aguilera R, Benmarhnia T, Catalano R, "Wildfire particulate matter in Shasta County, California and respiratory and circulatory disease-related emergency department visits and mortality, 2013–2018", *Environmental Epidemiology*, 5(1):e124, 2021
65. Wu H, **Kioumourtzoglou M-A**, Just AC, Kloog I, Sanders A, Svensson K, McRae N, Tamayo-Ortiz M, Solano-González M, Wright RO, Téllez-Rojo M, Baccarelli AA, "Association of ambient PM_{2.5} exposure with maternal bone strength in pregnant women from Mexico City: a longitudinal cohort study", *Lancet Planetary Health*, 4(11):e530-e537, 2020
**Selected as paper of the month by NIEHS's Environmental Factor*

64. Nunez Y[†], Gibson EA[†], Tanner EM, Gennings C, Coull BA, Goldsmith J, **Kioumourtzoglou M-A**, “Reflection on Modern Methods: Good practices for applied statistical learning in epidemiology”, *International Journal of Epidemiology*, 50(2):685-693, 2020
[†]The authors contributed equally
63. Neophytou AM, **Kioumourtzoglou M-A**, Goin DE, Darwin KC, Casey JA, “Educational Notes: Addressing Special Cases of Bias that Frequently Occur in Perinatal Epidemiology”, *International Journal of Epidemiology*, 50(1):337-345, 2020
62. Kupsco A, Wu HH, Calafat A, **Kioumourtzoglou M-A**, Tamayo-Ortiz M, Pantic I, Cantoral A, Tolentino M, Oken E, Braun J, Deierlein A, Wright RO, Téllez-Rojo MM, Baccarelli A, Just AC, “Prenatal Maternal Phthalate Exposures and Child Lipid and Adipokine Levels at Age Six: A Study from the PROGRESS Cohort of Mexico City”, *Environmental Research*, 192:110341, 2020
61. Shi L[†], Wu X[†], Danesh Yazdi M, Braun D, Abu Awad Y, Wei Y, Liu P, Di Q, Wang Y, Schwartz J, Dominici F, **Kioumourtzoglou M-A**[‡], Zanobetti A[‡], “Long-term Effects of Fine Particulate Matter on Neurological Disorders in the US Medicare Population: A Nationwide Analysis”, 4:e557–65, *The Lancet Planetary Health*, 2020
[†]The first authors contributed equally; [‡]The senior authors contributed equally
60. Ran J, **Kioumourtzoglou M-A**, Sun S, Han L, Zhao S, Zhu W, Li J, Tian L, “Source-specific Volatile Organic Compounds and Emergency Hospital Admissions for Cardiorespiratory Diseases”, *International Journal of Environmental Research and Public Health*, 17(17):6210, 2020
59. Dolcini J, **Kioumourtzoglou M-A**, Cayir A, Sanchez-Guera M, Brennan KJ, Dereix AE, Coull BA, Spiro A, Vokonas P, Schwartz J, Baccarelli AA, “Age and Mitochondrial DNA Copy Number Influence the Association Between Outdoor Temperature and Cognitive Function: Insights from the VA Normative Aging Study”, *Environmental Epidemiology*, 4(4):e0108, 2020
58. deSouza P, Braun D, Parks RM, Schwartz J, Dominici F, **Kioumourtzoglou M-A**, “Nationwide study of short-term exposure to fine particulate matter and cardiovascular hospitalizations among Medicaid enrollees”, 32(1):6-13, *Epidemiology*, 2021
57. Rowland ST, Boehme AK, Rush J, Just AC, **Kioumourtzoglou M-A**, “Can Ultra Short-Term Changes in Ambient Temperature Trigger Myocardial Infarction?”, *Environment International*, 143:105910, 2020
56. McGee G, **Kioumourtzoglou M-A**, Weisskopf MG, Haneuse S, Coull BA, “On the Interplay Between Exposure Misclassification and Informative Cluster Size”, *Journal of the Royal Statistical Society*, 69, Part 5, 1209-1226, 2020
55. Wu X[†], Braun D[†], Schwartz J, **Kioumourtzoglou M-A**, Dominici F, “Evaluating the Impact of Long-term Exposure to Fine Particulate Matter on Mortality Among the Elderly”, *Science Advances*, 6(29):eaba5692, 2020
[†]The authors contributed equally
54. McGee G, Perkins NJ, Mumford SL, **Kioumourtzoglou M-A**, Weisskopf MG, Schildcrout JS, Coull BA, Schisterman EF, Haneuse S, “Methodological Issues in Population-Based Studies of Multigenerational Associations”, *American Journal of Epidemiology*. 189(12):1600-1609, 2020
53. Huang Y, **Kioumourtzoglou M-A**, Mittleman MA, Ross Z, Williams MA, Friedman AM, Schwartz J, Wapner RJ, Ananth CV, “Air Pollution and Risk of Placental Abruption: A Study of Births in New York City, 2008–2014”, *American Journal of Epidemiology*, In Press, 2020

52. Kalia V, Walker DI, Krasnodemski KM, Jones DP, Miller GW, **Kioumourtzoglou M-A**, “Un-supervised dimensionality reduction for exposome research”, *Current Opinion in Environmental Science & Health*, 15:32-38, 2020
51. Shearston JA, Johnson MA, Domingo-Relloso A, **Kioumourtzoglou M-A**, Hernández D, Ross J, Chillrud SN, Hilpert M, “Opening a Large Delivery Service Warehouse in the South Bronx: Impacts on Traffic, Air Pollution, and Noise”, *Int. J. Environ. Res. Public Health* 17:3208, 2020
50. Dolcini J, Wu H, Nwanaji-Enwerem JC, **Kioumourtzoglou M-A**, Cayir A, Sanchez-Guerra M, Vokonas P, Schwarz J, Baccarelli AA. “Mitochondria and aging in older individuals: an analysis of DNA methylation age metrics, leukocyte telomere length, and mitochondrial DNA copy number in the VA normative aging study”, *Aging*, 15;12(3):2070, 2020
49. He MZ, Kinney PL, Li T, Chen C, Sun Q, Ban J, Wang J, Liu S, Goldsmith J, **Kioumourtzoglou M-A**, “Short- and intermediate- term exposure to NO₂ and mortality: a multi-county analysis in China”, *Environmental Pollution*, 261:114165, 2020
48. Chen Y, Wu F, Liu X, Parvez F, Lolocono NJ, Gibson EA, **Kioumourtzoglou M-A**, Levy D, Shahriar H, Nasir Uddin M, Islam T, Lomax A, Saxena R, Sanchez T, Santiago D, Ellis T, Ahsan H, Wasserman GA, Graziano JH, “Early life and adolescent arsenic exposure from drinking water and blood pressure in adolescence”, *Environmental Research*, 178:108681, 2019
47. Gibson EA[†], Nunez Y[†], Abuawad A, Zota AR, Renzetti S, Devick KL, Gennings C, Goldsmith J, Coull BA, **Kioumourtzoglou M-A**, “An Overview of Methods to Address Distinct Research Questions on Environmental Mixtures: An Application to Persistent Organic Pollutants and Leukocyte Telomere Length”, *Environmental Health*, 18(1):76, 2019
[†]The authors contributed equally
**Selected as paper of the month by NIEHS's Environmental Factor*
46. Choirat C, Braun D, **Kioumourtzoglou M-A**, “Data Science in Environmental Health Research”, *Current Epidemiology Reports*, 15;6(3):291-9, 2019
45. Jin X, Fiore AM, Civerolo K, Bi J, Liu Y, van Donkelaar A, Martin RV, Al-Hamdan M, Zhang Y, Insaf TZ, **Kioumourtzoglou M-A**, He MZ, Kinney PL, “Comparison of multiple PM_{2.5} exposure products for estimating health benefits of emission controls over New York State, USA”, *Environmental Research Letters*, 14 084023, 2019
44. Westervelt DM, Ma CT, He MZ, Fiore AM, Kinney PL, **Kioumourtzoglou M-A**, Wang S, Xing J, Ding D, Correa G, “Mid-21st century ozone air quality and health burden in China under emissions scenarios and climate change”, *Environmental Research Letters*, 14 074030, 2019
43. Papadogeorgou G, **Kioumourtzoglou M-A**, Braun D, Zanobetti A, “Low levels of air pollution and health: Effect estimates, methodological challenges and future directions.” *Current Environmental Health Reports*, 15;6(3):105-15, 2019
42. Gibson EA, Goldsmith J, **Kioumourtzoglou M-A**, “Complex Mixtures, Complex Analyses: an Emphasis on Interpretable Results.” *Current Environmental Health Reports*, 15;6(2):53-61, 2019
41. Fry D, **Kioumourtzoglou M-A**, Treat CA, Burke K, Evans D, Tabb LP, Carrion D, Perera FP, Lovasi GS, “Development and validation of a method to quantify benefits of clean-air taxi legislation.” *Journal of exposure science & environmental epidemiology*, 30(4):629-640, 2020

40. Domingo-Relloso A, Grau-Perez M, Martin-Escudero JC, Briongos-Figuero L, Gomez-Ariza JL, Garcia-Barrera T, Dueñas-Laita A, Bobb JF, Chaves J, **Kioumourtzoglou M-A**, Navas-Acien A, Redon-Mas J, Tellez-Plaza M, “The association of urine metals and metal mixtures with cardiovascular incidence in an adult population from Spain: the Hortega Follow-Up Study.” *International Journal of Epidemiology*, 48(6):1839-1849, 2019
39. Hilpert M, Johnson M, **Kioumourtzoglou M-A**, Domingo-Relloso A, Peters A, Adria-Mora B, Hernández D, Ross J, Chillrud SA, “A new approach for inferring traffic-related air pollution use of radar-calibrated crowd-sourced traffic data”, *Environment International*, 127:142-159, 2019
38. McGee G, Weisskopf MG, **Kioumourtzoglou M-A**, Coull BA, Haneuse S, “Informatively empty clusters with application to multigenerational studies”, *Biostatistics*, 21(4):775-789, 2020
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US ENVIRONMENTAL PROTECTION AGENCY, SCIENCE ADVISORY BOARD-REVIEWED TECHNICAL DOCUMENTS

1. US EPA. Integrated Science Assessment for Particulate Matter (Final). US Environmental Protection Agency, Washington, DC, EPA/600/R-19/188. December 2019 (Role: Author)

PEER-REVIEWED CONFERENCE AND WORKSHOP PAPERS (WITH PROCEEDINGS)

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)*

PRE-PRINTS

12. Gibson EA, Zhang J, Yan J, Chillrud L, Benavides J, Nunez Y, Herbstman J, Goldsmith J, Wright J, **Kioumourtzoglou M-A**, "Principal Component Pursuit for Pattern Identification in Health Studies", *arXiv:2111.00104*
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BOOKS AND BOOK CHAPTERS

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)

Presentations

INVITED PRESENTATIONS

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_{2.5} 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_{2.5} 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