

MELINDA C. POWER, ScD

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EDUCATION AND TRAINING

2004	BA	Boston College
2012	ScD	Harvard School of Public Health
2012-2013	Postdoctoral Fellowship	Harvard School of Public Health
2013-2015	Postdoctoral Fellowship	Johns Hopkins Bloomberg School of Public Health

PROFESSIONAL EMPLOYMENT

2022-2023	Health and Aging Policy Fellow Health and Aging Policy Fellowship Program
2020 –	Associate Professor Department of Epidemiology and Biostatistics George Washington University Milken Institute School of Public Health
2019 –	Founding Director Institute of Brain Health and Dementia George Washington University
2015-2020	Assistant Professor Department of Epidemiology and Biostatistics George Washington University Milken Institute School of Public Health
2013-2015	Postdoctoral Fellow Department of Epidemiology Johns Hopkins Bloomberg School of Public Health

- 2012-2013 **Postdoctoral Fellow**
Department of Environmental Health
Harvard School of Public Health
- 2007-2015 **Research Associate**
AlzRisk Alzheimer Disease Epidemiology Database, www.alzrisk.org
Alzheimer Research Forum
- 2006-2007 **Associate Manager**
BASES, a service of the Nielsen Company
- 2005-2006 **Senior Research Analyst**
BASES, a service of the Nielsen Company
- 2004-2005 **Research Analyst**
BASES, a service of the Nielsen Company

HONORS AND AWARDS

- 2022/2023 Health and Aging Policy Fellowship
- 2019 Nominated for the GWU OVPR Early Career Researcher Faculty Award
- 2019 GWU Nominee for the 2020 Blavatnik National Awards for Young Scientists (Life Sciences Category)
- 2019 Nominated for the Society of Epidemiologic Research Brian MacMahon Early Career Award
- 2018 Nominated for the Society of Epidemiologic Research Brian MacMahon Early Career Award
- 2015 National Institute of Aging Butler-Williams Scholar
- 2014 First Place Poster Competition, Johns Hopkins Postdoc Retreat
- 2014 Second Place Poster Competition, Johns Hopkins Research on Aging Showcase
- 2010 Society of Epidemiologic Research (SER) Dissertation Workshop
- 2004 General Excellence Award, Boston College

GRANTS PENDING

U01 AG086947 4/2024-3/2029 NIH/NIA (PI: Rein, Power)
Title: Developing a Flexible and Accessible Patient-Centered Dementia Monetary Cost Model
Role: MPI
This project will develop and publicly disseminate estimates of the monetary costs of dementia at the national, state, and county level, and will further develop a public data infrastructure, available with substantial support and technical assistance to investigators, to support independent economic investigations.

P01 AG078112 4/2023-3/2028 NIH/NIA (PI: Kaufman, Sheppard)

Title: Air Pollution Exposure, Alzheimer's disease, Brain aging, Cognition: Understanding Disparities (APEX-ABCD)

Role: Co-I

The major goals are to address unanswered questions regarding the relationship between environmental exposures—especially ultrafine particulate matter (UFP) and traffic-related air pollutants (TRAP)—and the risk of Alzheimer's Disease and Related Dementias. Using an integrated scientific framework, this research program combines a large and diverse set of cohorts for epidemiological research, toxicological research in relevant models, and clinical research in older adults.

GRANTS AWARDED

TP10516 9/2022-9/2026 DoD (PI: Dams-O'Connor)

Title: LEveraging Nationwide Research Infrastructure to EnriCH Brain Health after TBI: the ENRICH Brain Health study.

Role: Co-I

The goals of this project are to use existing and new TBIMS data to identify risk factors for post-traumatic neurodegeneration and suicidality, and to create a new data resource allowing exploration of risk and resilience among military service members with TBI (LETBI- MIL).

R01 NS128961 9/2022-9/2027 NIH/NINDS (PI: Dams-O'Connor)

Title: Clinical & biological signatures of post-traumatic neurodegeneration: Leveraging the TBI Model Systems of Care to accelerate in vivo diagnosis of the late effects of TBI (LETBI)

Role: Co-I

The goals of this project are to investigate the clinical and biological features that distinguish the chronic static effects of TBI from those associated with progressive post-traumatic neurodegeneration. To accomplish this, the project will expand the original LETBI cohort to include 4 additional model systems centers, including multimodal data collection and brain donation.

R03 AG075265 9/2022-8/2024 NIH/NIA (PI: Power)

Title: Midlife statin use and late life cognition

Role: PI

The major goal of this project is to evaluate whether midlife statin use reduces risk of incident ADRD or use slows cognitive decline from midlife to late-life.

U19 AG078558 7/2022-6/2027 NIH/NIA (PI: Luchsinger, Temprosa, Nathan)

Title: Alzheimer's Disease and Alzheimer's Disease Related Dementias in Prediabetes and Type 2 Diabetes: The Diabetes Prevention Program Outcomes Study AD/ADRD Project

Role: Co-I

The overarching goals of this project are to understand the determinants and nature of cognitive impairment among persons with pre-diabetes and type 2 diabetes.

R01 AG075730 3/2022-2/2027 NIH/NIA (PI: Rein)

Title: Developing and Evaluating a Surveillance System for Alzheimer's Dementia In the United States

Role: Co-I

We propose to create a publicly accessible system to track ADRD diagnoses in Medicare and Medicaid; conduct research to understand the correlation between diagnosed and assessed dementia; and demonstrate the value of the new system.

R01 AG072559 2/2022-1/2027 NIH/NIA (MPI: Power, James)

Title: Predictors and consequences of the timing and accuracy of clinical dementia diagnosis

Role: MPI

The overarching goal of this project is to develop the evidence base around the predictors and consequences of clinical underdiagnosis vs early clinical diagnosis of Alzheimer's disease and related dementias (ADRD) in healthcare settings.

U19 NS115388 09/19/2019 – 08/31/2025 NIH (PI: Rost/Greenberg)

Title: DISCOVERY: Determinants of Incident Stroke Cognitive Outcomes and Vascular Effects on RecoverY

Role: Consultant

The major goal(s) of this project is to develop a collaborative nationwide network of clinical sites with access to diverse acute stroke US populations and the expertise, experience and capacity to execute a large prospective study that will unravel the mechanisms of post-stroke cognitive disability, early recovery after stroke, and potential targets for personalized prevention, intervention, and rehabilitation.

R01 ES029509 9/30/2018-8/31/2022 + NCE NIH/NIA, NIEHS (PI: Power)

Title: Air pollution, Alzheimer's Disease and Related Outcomes

Role: PI

The major goal of this project is to examine the association between ambient air pollution and late-life cognitive health.

R01 AG057869 9/01/2018-4/30/2023 NIH/NIA (MPI: Power, Glymour)

Title: Closing the gap between observational research and randomized trials for prevention of Alzheimer's Disease and dementia

Role: PI

The major goals of this project are to improve the design of future randomized trials in Alzheimer's disease prevention through creation of a simulation platform that can quantify the expected impact of a given intervention in a trial with a specific design. The simulation will combine data from multiple observational studies and be validated against existing randomized trials.

GRANTS CONCLUDED

University Seminars Funding Program 2021-2022 07/01/2021-7/31/2022
George Washington University Office of the Vice President of Research (PI:
DiPietro/Cole)

Title: Addressing Dementia Across the Public Health Spectrum

Role: Co-I

This award will fund a series of 8 seminars on research on cognitive decline and dementia, with the goal of engaging students and faculty in this area of research.

R03 AG061499 02/15/2019-12/31/2021 NIH/NIA (PI: Power)

Title: Evaluating impact of recent federal policy changes on hospice utilization among patients with Alzheimer's Disease and Related Dementias

Role: PI

The major goal of this project is to improve the Medicare hospice benefit in design, implementation, and oversight to maximize the quality and efficiency of care for ADRD patients at the end-of-life.

W81XWH-17-1-0330 09/30/2017-9/29/2021 DOD (PI: Dams-O'Connor)

Title: Late-life consequences of TBI and military service: a population based study

Role: Co-Investigator

The goal of this interdisciplinary proposal is to comprehensively examine the chronic health consequences of TBI and military service by leveraging extensive existing data resources from a well-defined large-scale population-based longitudinal cohort study of veterans and civilians that includes research-quality ascertainment of incident dementia and autopsy endpoints: The Adult Changes in Thought (ACT) study.

R01 ES029509-S1 9/07/2020-8/31/2021 NIH/NIA, NIEHS (PI: Power)

Title: Air pollution, Alzheimer's Disease and Related Outcomes (Administrative Supplement)

Role: PI

The major goal of this project is to link additional air pollution models to the ARIC cohort and to explore the influence of air pollution estimation approach on epidemiologic effect estimates.

CHA2020-000024 03/01/2020-9/30/2020 DC Department of Health (PI: Power)

Title: Brain Health Needs Assessment

Role: PI

The goals of this project are to estimate prevalence of dementia and dementia-risk factors in DC, compile a list of assets and resources available to DC residents that are useful to persons living with dementia and their care partners, and to conduct qualitative assessment of unmet needs of local caregivers of those with cognitive impairment.

University Seminars Funding Program 2019-2020 07/01/2019-12/30/2020

George Washington University Office of the Vice President of Research (PI: Power)

Title: Developing a Patient-Centered Approach to Research in Adult Cognitive Health and Dementia

Role: PI

This award will fund a series of four seminars on patient-centered outcomes research with the goal of fostering local patient-centered outcomes research with metro DC area organizations.

R03 AG055485 05/15/2017-04/30/2020 NIH/NIA (PI: Power)

Title: Race/ethnic disparities in the incidence and over- or under-diagnosis of Alzheimer's disease and related dementia in the United States

Role: PI

This grant aims to describe race/ethnic disparities in the incidence and diagnosis of dementia and to provide insight into whether disparities are widening or shrinking with time.

Rush ADC Pilot Grant Subaward to 5P30AG010161 08/01/2015-07/31/2016

NIH/NIA

Title: Persistent Organic Pollutants and Cognitive Aging

Role: PI

This pilot project is designed to assess the feasibility of quantifying >50 persistent organic pollutants in stored serum from the Rush Memory and Aging Project and to provide pilot data linking these persistent organic pollutants to dementia, cognition, and other age-related outcomes.

T32 AG027668 07/01/2013 – 06/30/2015 NIH/NIA

Title: Research Training in Age-Related Cognitive Disorders

Role: Post-doctoral Trainee

A multidisciplinary pre- and post-doctoral training program with four special emphasis areas: (1) clinical studies of age-related cognitive and neuropsychiatric disorders; (2) population studies of aging and age-related cognitive and neuropsychiatric disorders; (3) imaging studies of aging and age-related cognitive and neuropsychiatric disorders; and (4) animal models of aging and neurodegeneration.

67481-JHUJC-04 05/01/2013- 04/30/2014 University of Mississippi Medical Center

Title: ARIC Neurocognitive Study

Role: Postdoctoral Fellow

Subcontract for collaborative effort of 5 NIH-funded R01s for a multi-center study on the vascular basis for dementia and cognitive decline in the ARIC cohort.

F31 AG038233 04/01/2011 – 09/30/2012 NIH/NIA

Title: Environmental Determinants of Cognitive Function and Decline in Older Adults

Role: PI

An individual pre-doctoral training award, providing training in environmental epidemiology and the epidemiology of aging and support for dissertation work. Research aims test hypotheses that exposures to two common environmental pollutants, lead and traffic-related air pollution, are associated with poor or declining cognition.

T32 ES007069 07/01/2008 – 03/31/2011 NIH/NIEHS

Title: Training Program in Environmental Epidemiology

Role: Pre-doctoral Trainee

A pre- and postdoctoral training program in environmental epidemiology. Pre-doctoral students in the environmental track take courses in epidemiology, exposure analysis, exposure biology, biostatistics, occupational health, toxicology, and biomarkers. Additional research credits are obtained on the methodology of epidemiologic research through tutorials on current problems in epidemiology, and from the completion of a doctoral thesis of substance.

PUBLICATIONS

As of September 2023:

Google Scholar h-index: 42, Google Scholar i10-index: 70

Articles in Refereed Journals

1. Zimmerman SC, Ferguson EL, Choudhary V, Ranatunga D, Oni-Orisan A, Hayes-Larson E, Folle AD,, Mayeda ER, Whitmer RA, Gilsanz P, **Power MC**, Schaefer C, Glymour MM, Ackley SF (in press) Metformin cessation and dementia incidence: results from Kaiser Permanente Northern California. JAMA Network Open.
2. Bennett EE, Song Z, Lynch KM, Liu C, Stapp EM, Xu X, Park ES, Ying Q, Smith RL, Stewart JD, Whitsel EA, Mosley TH, Wong DF, Liao D, Yanosky JD, Szpiro AA, Kaufman JD, Gottesman RF, **Power MC** (in press). The association of long-term exposure to criteria air pollutants, fine particulate matter components, and airborne trace metals with late-life brain amyloid burden in the Atherosclerosis Risk in Communities (ARIC) study. Environment International.
3. Jones A, **Power MC** (in press) Pre-Pandemic Factors Associated with Delayed Health Care among US Older Adults during the COVID-19 Pandemic. Journal of Medicine Access
4. Ackley SF, Wang J, Chen R, **Power MC**, Allen IA, Glymour MM. (in press) Estimated Effects of Amyloid Reduction on Cognitive Change: A Bayesian Update across a Range of Priors. Alzheimer's & Dementia: The Journal of the Alzheimer's Association
5. Yahagi-Estevam M, Farias-Itao DS, Leite REP, Rodriguez RD, Pasqualucci CA, Nitrini R, Jacob-Filho W, **Power MC**, Suemoto CK. The Potential Role of Selection Bias in the Association Between Coronary Atherosclerosis and Cognitive Impairment. J Alzheimers Dis. 2023;93(4):1307-1316. doi: 10.3233/JAD-220820. PMID: 37182864.
6. Gibbons LE, **Power MC**, Walker RL, Kumar RG, Murphy A, Latimer CS, Nolan AL, Melief EJ, Beller A, Bogdana M, Keene CD, Larson EB, Crane PK, Dams-

O'Connor K. (2023) Association of Traumatic Brain Injury with Late Life Neuropathological Outcomes in a Community-Based Cohort. J Alzheimers Dis, 93(3):949-961.

7. Liu C, Ma Y, Hofman A, Waziry R, Koton S, Pike J, Windham GB, **Power MC**, Sharrett AR, Gottesman R (in press)_Educational Attainment and Dementia: Mediation by Midlife Vascular Risk Factors. Annals of Neurology
8. Grasset L, **Power MC**, Crivello F, Tzourio C, Chene G, Dufouil C (2023) How traumatic brain injury history relates to brain health MRI markers and dementia risk: findings from the 3C Dijon cohort. Journal of Alzheimer's Disease, 92(1):183-193.
9. Gianattasio KZ, **Power MC**, Lupu D, Prather C, Moghtaderi A (in press). Medicare hospice policy changes and beneficiaries' rate of live discharge and length-of-stay. Journal of Pain and Symptom Management
10. Shaw C, Wu Y, Zimmerman SC, Hayes-Larson E, Belin TR, **Power MC**, Glymour MM, Mayeda ER (online ahead of print). Comparison of imputation strategies for incomplete longitudinal data in lifecourse epidemiology. American Journal of Epidemiology
11. **Power MC**, Parthasarathy V, Gianattasio KZ, Walker RL, Crane PK, Larson EB, Gibbons LE, Kumar RG, Dams-O'Connor K. (2023). Investigation of the association of military employment and Parkinson's disease with a validated Parkinson's disease case-finding strategy. Brain Injury, 37(5):383-387.
12. Schmidt K, **Power MC**, Ciarleglio A, Nadareishvili Z (2022). Post-stroke cognitive impairment and the risk of stroke recurrence and death in patients with insulin resistance. Journal of Stroke and Cerebrovascular Diseases, 31(10):106744.
13. Park DE, Watson NL, Focht C, Feikin DR, Hammitt LL, Brooks WA, Howie SRC, Kotloff KL, Levine OS, Madhi SA, Murdoch DR, O'Brien DL, Scott JAG, Thea DM, Amorninthapichet T, Awori JO, Bunthi C, Ebruke BE, Elhilali M, Higdon MM, Hossain L, Jahan Y, Moore DP, Mulindwa JM, Mwananyanda L, Naorat S, Prosperi C, Thamthitawat S, Verwey C, Jablonski K, **Power MC**, Young HA, Knoll MD, McCollum ED (2022). Digitally recorded and remotely classified lung auscultation compared with conventional stethoscope classifications among children aged 1–59 months enrolled in the Pneumonia Etiology Research for Child Health (PERCH) case–control study. BMJ Open Respiratory Research, 9(10):e001144.
14. Gianattasio KZ, Moghtader A, Lupu D, Prather C, **Power MC** (2022). Evaluation of federal policy changes to the hospice benefit and use of hospice for persons with AD/DR. JAMA Health Forum, 3(5):e220900.
15. Bennett EE, Lynch KM, Xu X, Park ES, Ying Q, Wei J, Smith RL, Stewart JD, Whitsel EA, **Power MC** (2022). Characteristics of movers and predictors of

residential mobility in the Atherosclerosis Risk in Communities (ARIC) cohort. Health & Place, 74:102771.

16. Grodstein F, Chang CH, Capuano AW, **Power MC**, Marquez DX, Barnes LL, Bennett DA, James BD, Bynum JPW (2022). Identification of dementia in recent Medicare claims data, compared to rigorous clinical assessments. Journals of Gerontology: Series A, Biological Sciences and Medical Sciences, 77(6):1272-1278.
17. Garcia Morales EE, Ting J, Gross AL, Betz J, Jiang K, Du S, **Power MC**, Reed NS, Sharrett AR, Lin FR, Deal JA (2022). Association of cigarette smoking patterns over 30 years with audiometric hearing impairment and speech-in-noise perception: the ARIC study. JAMA Otolaryngology-Head & Neck Surgery, 148(3):243-251.
18. Bennett EE, Kwan A, Gianattasio KZ, Engelman B, Dowling NM, **Power MC** (2021) Estimation of dementia prevalence at the local level in the United States. Alzheimer's & Dementia: Translational Research & Clinical Interventions, 7(1):e12237.
19. **Power MC**, Engelman B, Wei J, Glymour MM (2022). Closing the gap between observational research and randomized controlled trials for prevention of Alzheimer's Disease and dementia. Epidemiologic Reviews, 44(1):17-28.
20. **Power MC**, Murphy AE, Gianattasio KZ, Zhang Y, Walker RL, Crane PK, Larson E, Gibbons LE, Kumar RG, Dams-O'Connor (2023). Association of military employment with late life cognitive decline and dementia: A population-based prospective cohort study. Military Medicine, 188(5-6):e1132-e1139.
21. Tabio L, Walker RL, Crane PK, Gibbons LE, Kumar RG, **Power MC**, Kelley AS, Larson EB, Dams-O'Connor K (2021). Association of lifetime TBI and military employment with late life ADL functioning: a population-based prospective cohort study. Arch Phys Med Rehabilitation, 102 (12):2316-2324.
22. Wei J, Gianattasio KZ, Bennett EE, Stewart J, Xu X, Park ES, Smith RL, Ying Q, Whitsel EA, **Power MC** (2022) The associations of dietary copper intake with cognitive outcomes: The ARIC Study. American Journal of Epidemiology, 191(7):1202-1211.
23. Weuve J, Bennett EE, Ranker L, Gianattasio KZ, Pedde M, Adar SD, Yanosky JD, **Power MC** (2021). Exposure to air pollution in relation to risk of dementia and related outcomes: an updated systematic review of the epidemiologic literature. Environmental Health Perspectives, 129(9):96001
24. César-Freitas KG, Suemoto CK, **Power MC**, Brucki SM, Nitrini R (2022). Incidence of dementia in a Brazilian population: the Tremembé Epidemiologic Study. Alzheimer's and Dementia, 18(4):581-590.

25. Ting J, Jiang K, Du S, Betz J, Reed N, **Power MC**, Gottesman R, Sharrett AR, Griswold M, Walker KA, Miller III ER, Lin FR, Deal JA (2022). Longitudinal blood pressure patterns from mid-to-late life and late-life hearing loss in the Atherosclerosis Risk in Communities Study. Journals of Gerontology: Series A, Biological Sciences and Medical Sciences, 77(3): 640-646.
26. Deal JA, Gross AL, Sharrett AR, Abraham AG, Coresh J, Carlson M, Griswold M, Mosley T, **Power MC**, Ramulu P, Reed NS, Lin FR, Swenor BK (2021). Hearing impairment and missing cognitive test scores in a population-based study of older adults: the Atherosclerosis Risk in Communities Neurocognitive Study. Alzheimer's and Dementia, 17(10): 1725-34.
27. Palta P, Sharrett AR, Gabriel KP, Gottesman RF, Folwom AR, **Power MC**, Evenson KR, Jack CR, Knopman DS, Mosley TH, Heiss G. (2021). A prospective analysis of leisure-time physical activity in mid-life and beyond and brain damage on MRI in older adults. Neurology, 96(7):e964-e974
28. Filshtein T, Li X, Zimmerman SC, Ackley SF, Glymour MM, **Power MC**. (2021). Proof of concept example for use of simulation to allow data pooling despite privacy restrictions. Epidemiology, 32(5):638-647
29. Kwan A, Wei J, Dowling MN, **Power MC***, Nadareishevili Z* (2021). Cognitive impairment after lacunar stroke and the risk of recurrent stroke and death. Cerebrovascular Diseases, 50(4): 383-389. *Co-last author
30. Gianattasio KZ, Bennett EE, Wei J, Mehotra ML, Mosley T, Gottesman RF, Stuart EA, Griswold ME, Couper D, Glymour MM, **Power MC** (2021). Generalizability of findings from a clinical sample to a community-based sample: A comparison of ADNI and ARIC. Alzheimer's & Dementia, 17(8):1265-1276
31. Ackley SF, Zimmerman SC, Brenowitz WD, Gold AL, Tchetgen Tchetgen E, Manly JJ, Mayeda ER, Filschtein TJ, **Power MC**, Elahi F, Brickman AM, Glymour MM (2021). Effect of reductions in amyloid levels on cognitive change in randomized trials: instrumental variable meta-analysis. BMJ, 372:n156
32. Kumar RG, Jayasinghe N, Walker RL, Gibbons LE, **Power MC**, Larson EB, Crane PK, Dams-O'Connor K (2020). Association of remote traumatic brain injury and military employment with late-life trajectories of depressive symptom severity. Journal of Affective Disorders, 281:376-383
33. Moazzami K, **Power MC**, Gottesman R, Mosley T, Lutsey PL, Jack CR, Hoogeveen, RC, West N, Alonso A (2020). Association of mid-life serum lipid levels with late-life brain volumes: The Atherosclerosis Risk in Communities Neurocognitive Study (ARIC-NCS). Neuroimage, 223: 117324
34. **Power MC**, Gianattasio KZ, Ciarleglio AC (2020). Implications of the use of algorithmic diagnoses or Medicare claims to ascertain dementia. Neuroepidemiology, 54(6): 462-471

35. **Power MC**, Bennett EE, Turner RW, Dowling NM, Ciarleglio A, Glymour MM, Gianattasio KZ (2021). Trends in relative incidence and prevalence of dementia across Non-Hispanic Blacks/African Americans and Whites in the United States, 2000-2016. JAMA Neurology, 78(3):275-284
36. Croll PH, Vernooij MW, Reid RI, Goedegebure A, **Power MC**, Rigtters SC, Sharrett AR, Baatenburg de Jong RJ, Mosley TH, de Groot M, Lin FR, Deal JA (2020). Hearing loss and microstructural integrity of the brain in a dementia-free older population. Alzheimer's & Dementia, 16(11): 1515-1523
37. Wei J, Palta P, Meyer ML, Kucharska-Newton A, Pence BW, Aiello AE, **Power MC**, Walker KA, Sharrett AR, Tanaka H, Jack CR, Mosley TH, Reid RI, Reyes DA, Heiss G (2020). Aortic stiffness and white matter microstructural integrity assessed by diffusion tensor imaging: the ARIC-NCS. Journal of the American Heart Association, 9(6):e014868
38. Alam, AA, Wu, A, **Power, MC**, West, NA, Alonso, A (2020). Associations of serum uric acid with incident dementia and cognitive decline in the ARIC-NCS cohort. Journal of the Neurological Sciences, 414:116866
39. Bennett, EE, Gianattasio, KZ, Hughes, TM, Mosley, TH, Wong, DF, Gottesman, RF, **Power, MC** (2020). The association between midlife lipid levels and late-life brain amyloid deposition. Neurobiology of Aging, 92:73-74
40. Grasset L, Glymour MM, Yaffe K, Swift SL, Gianattasio KZ, **Power MC**, Zeki Al Hazzouri, A (2020). Association of traumatic brain injury with dementia and memory decline in older adults in the United States. Alzheimer's & Dementia, 16(6): 853-861
41. Blum, M F, Surapaneni, A, Stewart, JD, Liao, D, Yanosky, JD, Whitsel, EA, **Power, MC***, Grams, ME* (2020). Particulate matter and albuminuria, glomerular filtration rate, and incident CKD. Clinical Journal of the American Society of Nephrology, 15(3):311-319 *Co-last authors.
42. Suemoto, CK, Gibbons, LE, Thacker EL, Jackson, JJ, Satizabal, CL, Bettcher, BM, Launer, L, Phillips, C, White, LR, **Power, MC** (2020). Incident prolonged QT interval in midlife and late-life cognitive performance. PLOS One, 15(2):e0229519
43. **Power, MC** (2020). Growing evidence links air pollution to risk of Alzheimer's disease and related dementia. Brain, 143(1):8-10
44. Gianattasio, KZ, Prather, C, Glymour, MM, Ciarleglio, A, **Power, MC** (2019). Racial disparities and temporal trends in dementia misdiagnosis risk in the United States. Alzheimer's & Dementia: Translational Research & Clinical Interventions, 5:891-898

45. Deal, J, **Power, MC**, Palta, P, Alonso, A, Schneider, ALC, Perryman, K, Bandeen-Roche, K, Sharrett, AR (2020). Relationship of cigarette smoking and time of quitting with incident dementia and cognitive decline. Journal of the American Geriatrics Society, 68(2): 337-345
46. **Power MC**, Su D, Wu A, Reid RI, Jack CR, Knopman DS, Coresh J, Huang J, Kantarci K, Sharrett AR, Gottesman RG, Griswold ME, Mosely TH (2019). Association of white matter microstructural integrity with cognition and dementia. Neurobiology of Aging, 83:63-72
47. Huang Q, Jin Y, Reed NS, **Power MC**, Talegawkar SA (2020). Diet quality and hearing loss among middle-older aged adults in the United States: Findings from the National Health and Nutrition Examination Survey. Public Health Nutrition, 23(5):812-820
48. Walker KA, Sharrett AR, Wu A, Schneider ALC, Albert M, Lutsey PL, Bandeen-Roche K, Coresh J, Gross, AL, Windham BG, Knopman DS, **Power MC**, Rawlings, AM, Mosley, TH, Gottesman, RF (2019). Association of midlife to late-life blood pressure patterns with incident dementia. JAMA, 322(6):535-545
49. Rawlings AM, Sharrett AR, Albert MS, Coresh J, Windham BG, **Power MC**, Knopman DS, Walker K, Burgard S, Mosley TH, Gottesman RF, Selvin E (2019). The association of late-life diabetes status and hyperglycemia with incident mild cognitive impairment and dementia: The ARIC Study. Diabetes Care, 42(7):1248-1254
50. Pokharel Y, Mouhanna F, Schneider ALC, Rawlings AM, Knopman DS, Nambi V, Virani SS, Hoogeveen RC, Alonso A, Heiss G, Coresh J, Mosley TH, Gottesman RF, Selvin E, Ballantyne C, **Power MC** (2019). High-sensitive troponin T, natriuretic peptide and cognitive change. Journal of the American Geriatrics Society, 67(11):2353-2361
51. Arem H, Lewlin D, Cifu G, Bires J, Goldberg E, Kaltman R, **Power MC**, Mauro LA, Kogan M (2019). A pilot study of group delivered behavioral interventions for insomnia among breast cancer survivors: comparing cognitive behavioral therapy for insomnia and a mind-body intervention. Journal of Alternative and Complementary Medicine, 25(8):840-844
52. Reed NS, Huddle MG, Betz J, **Power MC**, Pankow JS, Gottesman R, Sharret AR, Mosley TH, Lin FR, Deal JA (2019). Association of mid-life hypertension with late-life hearing loss. Otolaryngology-Head and Neck Surgery, 161(6):996-1003
53. Gianattasio KZ, Ciarleglio A, **Power MC** (2020). Development of algorithmic dementia ascertainment for use in racial/ethnic disparities research in the U.S. nationally-representative Health and Retirement Study. Epidemiology, 31(1):126-133

54. Alber J, Alladi S, Bae H-J, Barton DA, Beckett LA, Bell JM, Berman SE, Biessels GJ, Black SE, Bos I, Bowman GL, Brai E, Brickman AM, Callahan BL, Corriveau RA, Fossati S, Gottesman RF, Gustafson DR, Hachinski V, Hayden KM, Helman AM, Huges TM, Isaacs JD, Jefferson AL, Johnson SC, Kapasi A, Kern S, Kwon JC, Kukolja J, Lee A, Lockhart SN, Murray A, Osborn KE, **Power MC**, Price BR, Rohdius-Meester HFM, Rondeau JA, Rosen AC, Rosene D, Schneider JA, Scholtzova H, Shaaban CE, Silva N, Snyder HM, Swardfager W, Troen AM, van Velluw S, Vemuri P, Walling A, Wellington C, Wilcock DM, Xie SX, Hainsworth AH (2019). White matter hyperintensities in vascular contributions to cognitive impairment and dementia (VCID): Knowledge gaps and opportunities. Alzheimer's and Dementia (N Y), 5:107-117
55. Wu A, Sharrett AR, Gottesman RF, **Power MC**, Mosley TH, Jack CR, Knopman DS, Windham BG, Gross AL, Coresh J (2019). Association of brain magnetic resonance imaging signs with cognitive outcomes in persons with normal cognition and with mild cognitive impairment. JAMA Network Open, 2(5):e193359
56. Heitz ER, Gianattasio KZ, Prather C, Talegawkar SA, **Power MC** (2019). Self-reported hearing loss and non-fatal fall-related injury in a nationally representative sample. Journal of the American Geriatrics Society, 67(7): 1410-16
57. Shao IY, **Power MC**, Mosley T, Jack C, Gottesman RF, Chen LY, Norby FL, Soliman EZ, Alonso A (2019). Association of atrial fibrillation with white matter disease: the Atherosclerosis Risk in Communities (ARIC) Study. Stroke, 50(4): 989-991
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Chapters in Books

1. **Power MC**, Weisskopf MG (2012). Lead: Neurotoxic Effects in Adults. The Praeger Handbook of Environmental Health. ed. Robert H. Friis

Non-Peer Reviewed Reports

1. **Power MC**, Lunsford B, Turner RW, Dowling NM, Gianattasio KZ, Engelman B, Bennett EE, Kwan A, Salib MR, Mattson A, and Prather C, for the GW Institute for Brain Health and Dementia. District of Columbia: 2020 Brain Health Needs Assessment (2020). Commissioned by DC Health. Accessible at <https://brainhealth.gwu.edu/our-work/projects-and-initiatives> and at <https://dchealth.dc.gov/node/1516041>.
2. Prather C, Salib MR, Mattson A, **Power MC**, for the GW Institute for Brain Health and Dementia. Services and Resources for Memory Loss and Dementia Care: A Guide for the District of Columbia (2020). Commissioned by DC Health. <https://brainhealth.gwu.edu/our-work/projects-and-initiatives>
3. **Power MC**, Weuve J, Gagne JJ, McQueen MB, Viswanathan A, Blacker D (2010). Blood Pressure. The AlzRisk Database. Alzheimer Research Forum. Available at: <http://www.alzrisk.org>.
4. **Power MC**, Goonesekera S, Kim IY, Weuve J, Blacker D. Statin Use. (2012) The AlzRisk Database. Alzheimer Research Forum. Available at: <http://www.alzrisk.org>.

SCHOLARLY PRESENTATIONS

Invited Talks

- | | |
|------|---|
| 2023 | Algorithmic dementia ascertainment
Applied Models and Digital Health (AMDH) Working Group
Virtual (Queen Mary University of London)
September 28, 2023 |
| 2023 | Epidemiologic methods, challenges, and solutions in dementia research
International Forum
Stockholm, Sweden (Karolinska Institutet)
June 14, 2023 |
| 2023 | Epidemiologic methods, challenges, and solutions in dementia research |

International Forum
Aarhus, Denmark (Aarhus University)
June 14, 2023

- 2023 Dementia: Prevention, Treatment and Disparities
Optimal Aging Conference
Virtual (University of Louisville)
April 17, 2023
- 2023 Analytical Considerations for Equitable ADRD Research: Combining
Samples and Identification of ADRD
**R13 Workshop: Leveraging existing data and analytic methods for
health disparities research related to dementia and ADRD**
Durham, NC (Duke University)
March 15, 2023
- 2022 Using HRS Core Data to Create Predicted Dementia Scores
HRS Workshop: Cognition Data in the Health and Retirement Study
Virtual (University of Michigan)
December 7, 2022
- 2022 Epidemiology of Air Pollution, Dementia, and Related Outcomes
25th Annual John B. Little Symposium
Genetic and Environmental Frontiers in Alzheimer's Disease
Virtual (Harvard H.T. Chan School of Public Health)
October 13, 2022
- 2022 Analytical considerations for equitable ADRD research: combining
samples and identification of ADRD
**Addressing Health Disparities to Promote Diverse Perspectives in
ADRD**
Washington, DC (Alzheimer's Association)
June 21, 2022
- 2022 Identifying dementia in cohorts and claims with application to surveillance
for racial disparities in dementia
Hopkins Economics of Alzheimer's Disease & Services (HEADS)
Center Seminar Series
Virtual (Johns Hopkins University)
June 15, 2022
- 2022 Identifying dementia in HRS
The Costs of Alzheimer's Disease and Related Dementias
Michigan Center for Contextual Factors in Alzheimer's Disease
Summer Data Immersion

Virtual (University of Michigan)

May 24, 2022

- 2022 Dementia research: Pursuit of informative epidemiology
NIA Intramural Seminar Series
Virtual (NIA)
April 27, 2022
- 2021 Do Chronic Diseases Impact the Risk of Dementia?
GW University Seminar Series: Addressing Dementia Across the Public Health Spectrum
Virtual (GWU)
November 17, 2021
- 2021 Weighting methods for generalizability and transportability.
Advanced Psychometrics Methods in Cognitive Aging Research 2021 Conference
Virtual (UC Davis)
August 23, 2021
- 2021 Who do we really end up recruiting and does it matter?
NIH Workshop on Non-pharmacological Approaches to the Early Prevention of AD/ADRD
Virtual (NIA/NIH)
May 25, 2021
- 2021 Epidemiology of air pollution, dementia, and related outcomes.
Air pollution and Dementia: Bridging Disciplines to Identify Mechanisms
Virtual (Harvard School of Public Health/Biogen)
March 15, 2021
- 2021 Trends in the relative incidence and prevalence of dementia across non-Hispanic Black and White individuals in the United States, 2000-2016
Alliance to Improve Dementia Care General Member Meeting
Virtual (Alliance to Improve Dementia Care)
January 6, 2021
- 2020 Causal Inference in Lifecourse Research
RCCN Workshop
Virtual (NIH)
November 4, 2020
- 2020 Performance of Medicare Claims to Identify Persons Living With Dementia Across Sociodemographics and Health Status

Future Priorities for Identifying People with Dementia from Digital Health Data Workshop
Virtual (IMPACT Collaborative)
October 20-21, 2020

- 2020 Little Progress in Reducing Relative Racial Disparities in the Incidence and Prevalence of Dementia in the United States, 2000-2016
Power, MC
Johns Hopkins Neurology Seminar Series
Baltimore, MD (Johns Hopkins School of Medicine)
August 17, 2020
- 2019 Implications of using Medicare or algorithmic diagnoses to ascertain dementia
Power, MC
NIA IRP Seminar Series
Baltimore, MD (NIA)
January 10, 2020
- 2019 Air Pollution and the Adult Brain: Impact on Cognition, Dementia, and Mood
Power, MC
International Neuropsychological Society 2019 CE Workshop
New York City, NY (International Neuropsychological Society)
February 22, 2019
- 2018 Air pollution and adult brain health
Power, MC
NIA ODS Seminar Series
Baltimore, MD (NIA)
December 18, 2018
- 2018 Air pollution and the adult brain: impact on cognition, dementia, and mood
Power, MC
Texas A&M Public Health, Department of Epidemiology and Biostatistics Departmental Seminar
College Station, TX (Texas A&M)
November 9, 2018
- 2018 Marginal Structural Models: Why they're useful and a practical example
Power, MC
UCSF Epi Tools Workshop Series
San Francisco, CA (UCSF)
October 1, 2018
- 2018 Metals, Cognitive Aging, and Dementia

Power, MC

**Harvard NIEHS Center for Environmental Health Metals Core Seminar
Boston, MA (Harvard School of Public Health)**

May 1, 2018

- 2017 Jump, Hop or Skip: Modeling Practice Effects in Studies of Determinants of Cognitive Aging
Vivot, A, Power, MC, Glymour, MM, Mayeda, ER, Benitez, A, Spiro, A, Manly, JJ, Proust-Lima, C, Dufouil, C, Gross, AL
**ISTAART Design and Data Analytics PIA Preconference
London, United Kingdom (ISTAART)**
July 15, 2017
- 2016 Air pollution and adult brain health
Power, MC
**INSERM Seminar Series
Bordeaux, France (INSERM)**
July 4, 2016
- 2016 Air pollution and mental health
Power, MC
**British Columbia Lung Association 13th Annual Air Quality and Health Workshop
Vancouver, Canada (British Columbia Lung Association)**
February 10, 2016
- 2014, 2015 Using epidemiology to identify strategies to prevent dementia: A call for a lifecycle approach considering modifiable risk factors
Power, MC
**Johns Hopkins Bloomberg School of Public Health
Baltimore, MD**
October 6, 2014 (Department of Mental Health)
December 10, 2014 (Department of Epidemiology)
**George Washington University School of Public Health
Washington, DC**
October 17, 2014
**Indiana University School of Public Health Bloomington
Bloomington, IN**
January 9, 2015
- 2012 Role of environment and methodological challenges in cognitive aging: Examples of traffic-related air pollution and hypertension
Power, MC
**University of Washington School of Medicine
Seattle, WA**
November 19, 2012

Conference Poster Presentations

- 2022 Comparison of PM_{2.5} air pollution exposure estimates at WHIMS participant locations based on different modelling approaches and impact on health effects estimation
Power MC, Bennett EE, Lynch KM, Stewart JD, Xu X, Park ES, Smith RL, Vizuete W, Margolis HG, Cananova R, Wallace R, Sheppard L, Ying Q, Serre M, Szpiro AA, Chen JC, Liao D, Wellenisu G, Yanosky J, Kaufman J, Whitsel EA
2022 International Society for Environmental Epidemiology Annual Meeting
Athens, Greece – September 19-22, 2022
- 2022 Association of residential road proximity and dementia: the Atherosclerosis Risk in Communities Study
Parker-Allotey NA, Lynch KM, Bennett EE, Xu X, Whitsel EA, Smith RL, Stewart JD, Park ES, Ying Q, Wei J, Power MC
2022 International Society for Environmental Epidemiology Annual Meeting
Athens, Greece – September 19-22, 2022
- 2022 The association between long-term PM_{2.5} exposure and late life brain amyloid deposition in the Atherosclerosis Risk in Communities (ARIC) cohort.
Bennett EE, Xu X, Lynch KM, Park ES, Ying Q, Smith R, Stewart JD, Whitsel EA, Mosley T, Yanosky J, Wong D, Liao D, Gottesman R, Power MC.
2022 Alzheimer's Association International Conference
San Diego, CA – July 31-August 4, 2022
- 2022 Association of residential road proximity and dementia: the Atherosclerosis Risk in Communities Study
Parker-Allotey NA, Lynch KM, Bennett EE, Xu X, Whitsel EA, Smith RL, Stewart JD, Park ES, Ying Q, Wei J, Power MC
2022 Alzheimer's Association International Conference
San Diego, CA – July 31-August 4, 2022
- 2020 Assessing the generalizability of findings from the Alzheimer's Disease Neuroimaging Initiative to the Atherosclerosis Risk in Communities Study cohort
Gianattasio KZ, Bennett EE, Wei J, Mehotra ML, Mosley T, Gottesman RF, Stuart EA, Griswold ME, Couper D, Glymour MM, Power MC
Alzheimer's Association International Conference

Virtual – July 27-31, 2020

- 2019 The Association of Blood Lipid Levels and Late-Life Brain Amyloid Accumulation in the ARIC-PET Amyloid Imaging Study
Bennet, E, Gianattasio, KZ, Hughes, TM, Mosley, TH, Wong, DF, Gottesman, RF, Power, MC
Alzheimer's Association International Conference
Los Angeles, CA – July 15-19, 2019
- 2019 Development of algorithmic dementia ascertainment for use in racial/ethnic disparities research in the US nationally-representative Health and Retirement Study
Gianattasio, KZ, Ciarleglio, A, Power, MC
2019 Society of Epidemiologic Research Annual Meeting
Minneapolis, MN – June 18-21
- 2018 Combined Neuropathological Pathways Account for Age-Related Increases in Risk of Dementia
Power, MC, Mormino, E, Soldan, A, James, BD, Yi, L, Armstrong, N, Bangen, K, Delano-Wood, L, Lamar, M, Lim, YY, Nudelman, K, Zahodne, L, Gross, AL, Mungas, D, Widaman, KF, Schneider, J
Alzheimer's Association International Conference
Chicago, Illinois – July 22-26, 2018
- 2018 Midlife Incident Prolonged Rate-Corrected QT Interval Does Not Predict Late-Life Cognitive Performance: The Honolulu-Asia Aging Study
Suemoto, CK, Jackson, JD, Gibbons, LE, Thacker, EL, Satizabal, CL, Bettcher, BM, Mez, J, White, LR, Power, MC
Alzheimer's Association International Conference
Chicago, Illinois – July 22-26, 2018
- 2017 The association of long-term exposure to particulate matter with magnetic resonance imaging (MRI) of brain volumes and subclinical cerebrovascular disease.
Power, MC, Lamichhane, AP, Liao, D, Jack, CR, Gottesman, RF, Mosley, T, Stewart, JD, Yanosky, JD, Whitsel, EA
2017 Society of Epidemiologic Research Annual Meeting
Seattle, WA – June 20-23
- 2016 Association of baseline lipids with 20-year cognitive change: the ARIC Neurocognitive Study.
Power, MC, Rawlings, A, Sharrett, AR, Bandeen-Roche, K, Coresh, J, Ballantyne, CM, Pokharel, Y, Penman, A, Alonso, A, Knopman, DS, Mosley, T, Gottesman, RF
Alzheimer's Association International Conference
Toronto, Canada – July 24-28, 2016

- 2016 A systematic review of the association of air pollution exposure with cognition, dementia, and dementia-related neuroimaging markers.
Power, MC, Adar, SD, Yanosky, J, Weuve, J
2016 Epidemiology Congress of the Americas
Miami, FL – June 21-24
- 2015 Statin use in midlife does not impact risk of dementia or cognitive change in the next few years: Results of a systematic review and methodological commentary
Power, MC, Weuve, J, Sharrett, AR, Blacker, D, Gottesman, RF
American Heart Association EPI/Lifestyle 2015 Annual Meeting
Baltimore, MD -- March 3-6, 2015
- 2014 Association of blood pressure with brain volumes and cerebrovascular features on brain MRI: the ARIC-NCS Study
Power, MC, Schneider, ALC, Wruck, L, Griswold, M, Coker, L, Alonso, A, Jack Jr., CR, Knopman, D, Mosley, TH, Gottesman, RF
American Neurological Association (ANA) Annual Meeting
Baltimore, MD -- October 12-14, 2014
- 2014 Smoking and white matter hyperintensity grade progression in the Atherosclerosis Risk in Communities (ARIC) Study
Power, MC, Deal, JA, Sharrett, AR, Jack, CR, Knopman, D, Mosley, TH, Gottesman, RF
Alzheimer's Association International Conference (AAIC)
Copenhagen, Denmark -- July 12-17, 2014
- 2014 Induction and impact of non-differential measurement error through use of regression calibration: Illustration in a real-data example of risk factors for white matter hyperintensity progression
Power, MC, Mosley, TH, Shibata, D, Gottesman, RF
Society for Epidemiologic Research (SER) Annual Meeting
Seattle, WA -- June 24-27, 2014
- 2013 Identification of Implausible Trajectories in Longitudinal Data
Power, MC, Korrnick, S, Grodstein, F, Hu, H, Rosner, B, Weiskopf, MG
Society for Epidemiologic Research (SER) Annual Meeting
Boston, MA -- June 18-21, 2013
- 2012 Explaining the age-dependent association between hypertension and cognition in older adults: selection and duration
Power, MC, Tchetgen Tchetgen, EJ, Schwatz, J, Weiskopf, MG
Alzheimer's Association International Conference (AAIC)
Vancouver, Canada -- July 14-19, 2012

- 2011 Exposure to lead and cognitive function in older women
Power, MC, Weuve, J, Nie, LH, Grodstein, F, Hu, H, Korrick, S, Weisskopf, MG
International Society for Environmental Epidemiology (ISEE) Conference
 Barcelona, Spain -- September 14-16, 2011
- 2010 Exposure to black carbon and cognitive function in a cohort of older men
Power, MC, Weisskopf, MG, Alexeeff, SE, Coull, BA, Spiro III, A, Schwartz, J
International Society for Exposure Science and International Society for Environmental Epidemiology Joint Conference (ISES-ISEE)
 Seoul, Korea -- August 22-25, 2010
- 2010 The relationship between blood pressure and incident Alzheimer disease: A systematic review and meta-analysis
Power, MC, Weuve, J, Gagne, J, McQueen, MB, Blacker, D
International Conference on Alzheimer's Disease (ICAD)
 Honolulu, HI - July 9-15, 2010

Conference Oral Presentations

- 2022 Epidemiology of Air Pollution, Dementia, and related Outcomes: What Do We Know?
Power MC
Joint Statistical Meetings
 Washington, DC – August 6-11, 2022
- 2020 Little Progress in Reducing Relative Racial Disparities in the Incidence and Prevalence of Dementia in the United States, 2000-2016
Power MC, Bennett EE, Turner RW, Dowling NM, Ciarleglio A, Glymour MM, Gianattasio KZ
Alzheimer's Association International Conference
 Virtual – July 27-31, 2020
- 2020 Air pollution, dementia, and related outcomes: an updated systematic review
Weuve J, Bennett EE, Ranker L, Powers S, Gianattasio KZ, Pedde M, Adar SD, Yanosky JD, Power, MC
International Society for Environmental Epidemiology (ISEE) Conference
 Virtual -- August 14-17, 2020
Presentation Type: Oral presentation

- 2019 Use of algorithmic dementia diagnoses for disparities research
Gianattasio, KZ, Ciarleglio, A, Power, MC
Methods in Longitudinal Research on Dementia (MELODEM)
Initiative Annual Meeting
 Half Moon Bay, CA – July 21-24, 2019
Presentation type: Oral presentation
- 2019 Validity of Algorithmic Diagnoses of Dementia: A Case Study of
 Application to Research on Race/Ethnic Disparities in Dementia
Ciarleglio, A, Gianattasio, KZ, Power, MC
Alzheimer’s Association International Conference
 Los Angeles, CA – July 15-19, 2019
Presentation type: Oral presentation
- 2018 Development of Algorithmic Dementia Diagnoses for Disparities Research
Gianattasio, KZ, Wu, Q, Glymour, MM, Power, MC
Alzheimer’s Association International Conference
 Chicago, Illinois – July 22-26, 2018
Presentation type: Oral presentation
- 2016 Midlife and late life vascular risk factors and microstructural integrity
 assessed using diffusion tensor imaging: the ARIC-NCS study.
Power, MC, Tingle, JV, Reid, RI, Huang, J, Sharrett, AR, Coresh, J,
Griswold, M, Jack, CR, Knopman, DS, Mosley, T, Gottesman, RF.
Alzheimer’s Association International Conference
 Toronto, Canada – July 24-28, 2016
Presentation type: Oral presentation
- 2016 Life-course blood pressure in relation to brain volumes: the ARIC-
 Neurocognitive Study.
Power, MC, Schneider, ALC, Wruck, L, Griswold, M, Coker, LH, Alonso,
A, Jack, CR, Knopman, D, Mosley, TH, Gottesman, RF.
Methods in Longitudinal Research on Dementia (MELODEM)
Initiative Annual Meeting
 Cernay-la-Ville, France – June 30-July 1, 2016
Presentation Type: Oral presentation
- 2015 Simulation Study of Alternate Treatment Classification Methods
Power, MC, Spiro, R, Weuve, J
Methods in Longitudinal Research on Dementia (MELODEM)
Initiative Annual Meeting
 Ermonville, France -- July 7, 2015
Presentation Type: Oral presentation
- 2014 Exposure to fine particulate air pollution is associated with anxiety

Power, MC, Kioumourtzoglou, M, Hart, JE, Okereke, OI, Laden, F, Weisskopf, MG

International Society for Environmental Epidemiology (ISEE) Conference

Seattle, WA -- August 24-28, 2014

Presentation Type: Oral presentation

2014 Hop, skip or jump: How should we model practice effects in longitudinal studies of cognitive decline, results of the MELODEM Measurement Working Group

Vivot, A, Power, MC, Glymour, MM, Mayeda, ER, Benitez, A, Spiro, A, Manly, JJ, Proust-Lima, C, Dufouil, C, Gross, AL

Methods in Longitudinal Research on Dementia (MELODEM) Initiative Annual Meeting

Paris, France -- May 23, 2014

Presentation Type: Oral presentation

2013 Impact of duration and age of onset of hypertension on cognition in older men

Power, MC, Tchetgen, EJ, Sparrow, D, Schwartz, J, Weisskopf, MG

Methods in Longitudinal Research on Dementia (MELODEM) Initiative Annual Meeting

Paris, France -- May 16, 2013

Presentation Type: Oral presentation

2012 Modification by HFE of the association between traffic-related air pollution and cognition in older men

Power, MC, Weisskopf, MG, Alexeeff, SE, Wright, RO, Coull, BA, Spiro III, A, Schwartz, J

International Society for Environmental Epidemiology (ISEE) Conference

Columbia, SC -- August 26-30, 2012

Presentation Type: Oral presentation

2012 Explaining disparate findings across studies: Issues of recruitment and follow-up, selection bias, and exposure definition

Power, MC, Tchetgen Tchetgen, EJ, Schwatz, J, Weisskopf, MG

International Society for Environmental Epidemiology (ISEE) Conference

Columbia, SC -- August 26-30, 2012

Presentation Type: Oral presentation

2012 Impact of duration and age at onset of hypertension on cognition in older men

Power, MC, Tchetgen, EJ, Sparrow, D, Schwartz, J, Weisskopf, MG

Society for Epidemiologic Research (SER) Annual Meeting

Minneapolis, MN -- June 27-30, 2012
Presentation Type: Oral presentation

2011 Cross-sectional association between polyfluoroalkyl chemicals and two measures of cognitive function in the National Health and Nutrition Examination Survey (NHANES)
Power, MC, Webster, T, Weisskopf, MG
International Society for Environmental Epidemiology (ISEE) Conference
Barcelona, Spain -- September 14-16, 2011
Presentation Type: Oral presentation

UNIVERSITY SERVICE

Department Committee Service

2022— Member
Department of Epidemiology Department Chair Search Committee

2019—2020 Member
Department of Epidemiology Faculty Search Committee

2015--present Member
Department of Epidemiology Curriculum Committee
2019—2020 Member, Doctoral Sub-Committee
2019—2020 Member, Methods Curriculum Sub-Committee

School Service

2018 – present Elected Member
2021 – 2023 Chair
Milken Institute School of Public Health Student Academic Appeals Committee

2019 Member
Ad-hoc Reopening Virtual/Digital Research at GWSPH Working Group

2017 Member
Ad-hoc Milken Institute School of Public Health IT and Research Data Management Security Committee

2015—2016 Organizer

New Faculty Group, Milken Institute School of Public Health

2016—2017 Organizer
Epi/Bio Discussion Group, Milken Institute School of Public Health

University Service

2019 – Present Founding Director
GWU Institute for Brain Health and Dementia

2018—2019 Founder and Lead
GWU Brain Health and Dementia in Aging Working Group

2017 GWU Research Day Abstract Reviewer

EXTERNAL SERVICE

2023 Ad Hoc P01 RFA Reviewer
2022 External Reviewer, 2023 Alzheimer’s Association Facts and Figures
2022 Data Monitoring Committee (DMC), Health and Retirement Study
2022 NIH/PSE Reviewer (March)
2022 NIH/PSE Reviewer (February)
2021 NIH/NAME Study Section Ad Hoc Reviewer (February)
2021 External Reviewer, 2022 Alzheimer’s Association Facts and Figures
2020 External Reviewer, 2021 Alzheimer’s Association Facts and Figures
2019-2020 Co-Chair, ARIC Environmental Working Group
2019 NIH/NAME Study Section Ad Hoc Reviewer
2019 External Reviewer, 2020 Alzheimer’s Association Facts and Figures
2018 NIA Study Section Reviewer, Special Study Section for RFA-AG-19-002
2013- Member, ARIC Neurocognitive Analysis Working Group
2013-2017 Member, ARIC MRI Analysis Working Group
2013-2015 Contributor, ARIC Analysis Manual

PROFESSIONAL SOCIETY MEMBERSHIP AND LEADERSHIP

ISEE International Society for Environmental Epidemiology
▪ Member
▪ ISEE 2014 Session Co-chair, “Impact of Ambient Air Pollution on Neurodegenerative and Psychiatric Disorders”

SER Society for Epidemiologic Research

- Member
- GWU SER Champion (2017-2022)
- Publications Committee Member (2018-2021)
- SER 2019 Symposium Chair, “Use of simulation in non-infectious disease epidemiology”
- SER 2018 Session Chair, “Big questions and novel approaches in dementia epidemiology”
- SER meeting abstract reviewer (2017, 2018)

ISTAART International Society to Advance Alzheimer's Research and Treatment

- Member
- AAIC meeting abstract reviewer (2017, 2018, 2022)

MELODEM International Initiative on Methods in Longitudinal Research in Dementia

- Member
- Co-Leader, Measurement working group (2018)
- Co-leader, Time-varying Exposure/Confounder Working Group (2015-2016)

EDITORIAL PEER REVIEW ACTIVITIES

Journal Reviewer Activities

2019-	Reviewer	Brain
2019-	Reviewer	JAMA
2019-	Reviewer	Environmental International
2018-	Reviewer	Environmental Research
2018-	Reviewer	Environmental Pollution
2018-	Reviewer	Alzheimer’s and Dementia
2018-	Reviewer	Science of the Total Environment
2018-	Reviewer	Journal of Alzheimer’s Disease
2017-	Reviewer	Alzheimer’s Research and Therapy
2016-	Reviewer	Social Science and Medicine
2016-	Reviewer	Journal of Affective Disorders
2016-	Reviewer	JAMA Internal Medicine
2015-	Reviewer	Neurology
2014-	Reviewer	Hypertension
2013-	Reviewer	Environmental Health Perspectives
2013-	Reviewer	International Journal of Epidemiology
2012-	Reviewer	American Journal of Epidemiology
2011-	Reviewer	Epidemiology

EXTERNAL ACTIVITIES/PARTNERSHIPS

Expert Review/Consultation

- 2021 Institute for Clinical and Economic Review, Expert Consultation
Review of gantenerumab, lecanemab, and donanemab for Alzheimer's disease – December 2021
- 2020 - 2021 Institute for Clinical and Economic Review, Expert Consultation
Aducanumab for Alzheimer's Disease – November 2020 to February 2021
- 2019 Alzheimer's Association, Expert Consultation
Prevalence of Alzheimer's Disease/Dementia: Immediate and Future Considerations, Bethesda, MD – March 13, 2019
- 2017 ICF on behalf of US EPA, Expert Review
Webinar Workshop to Review Initial Draft Materials for the Ozone Integrated Science Assessment (ISA) for Health and Welfare Effects -- October 8, 2018 – November 5, 2019

Speaker or Panel Participation

- 2022 Invited Speaker
Trends and Disparities in Risk and Diagnosis of Dementia
Alzheimer's Foundation of America Educate America Tour, Washington DC Alzheimer's & Caregiver Conference
Washington, DC
November 22, 2022
- 2022 Invited Speaker
Preventing or delaying dementia: What do we know?
Arlington Senior Center Seminar Series
Arlington, VA
July 11, 2022
- 2020 Invited Speaker
Dementia risk reduction in the age of COVID-19
Alzheimer's Disease International
Webinar
October 26, 2020
- 2019 Panel Discussant
Private Screening of *Turning Point*, an award-winning documentary by acclaimed filmmaker James Keach

Milken Institute 2019 Future of Health Summit

Washington DC

October 28, 2019

2017 Panel Discussant
Brain Health and Alzheimer's Prevention Panel
2017 UsAgainstAlzheimer's National Alzheimer's Summit
Washington, DC
October 4, 2017

2021 Speaker
Dementia Resources Guide
Alzheimer's D.C. Advocacy Day, DC Alzheimer's Association Event
Virtual
June 22, 2021

Involvement/Consultants with External Organizations

2021 – Biogen Healthy Climate, Healthy Lives™ Scientific Advisory Council, Member

2021- DC Brain Health Advisor Coalition, Member

2020 – Alliance to Improve Dementia Care, Member

2020 – 2021 DC Brain Health Steering Committee, Member

Advanced Psychometrics Methods in Cognitive Aging Research

2021 Invited participant and speaker

2016 Invited working-group leader

2015 Invited participant

2013 Invited participant

TEACHING/LEARNING PORTFOLIO

Teaching Professional Development

2016 Course Design Institute at the George Washington University

2017 Teaching Network for Early Career Faculty at the George Washington University

Courses Taught

Faculty Instructor, Epidemiology of Aging (PUBH6248)

George Washington University Milken Institute School of Public Health
Fall 2022, Fall 2020, Fall 2019, Fall 2019, Fall 2017, Fall 2016

Faculty Instructor, Design of Health Studies

George Washington University Milken Institute School of Public Health
Spring 2020, Spring 2019, Spring 2018, Spring 2017, Spring 2016, Spring
2015

Instructor, Epidemiologic Methods 3 (340.753.01)

Johns Hopkins Bloomberg School of Public Health
Spring 2016

Teaching Assistant, Analysis of Cohort and Case Control Data (EPI 204)

Harvard School of Public Health
Spring 2011

Teaching Assistant, Environmental and Occupational Epidemiology (EPI 215)

Harvard School of Public Health
Fall 2010

Teaching Assistant, Introduction to Epidemiology (EPI 201)

Harvard School of Public Health
Fall 2009, Fall 2008

Other Teaching/Learning Activities

2015-present	Host for SERDigital Events
2023	Guest lecturer EPGRAD R25 summer program GWU Milken Institute School of Public Health
2022-2023	Guest lecturer PUBH 6299: Brain Health and Dementia GWU Milken Institute School of Public Health
2018-2022	Guest lecturer PUBH 6199: Global Climate Change and Air Pollution: Science, Impacts, and Solutions GWU Milken Institute School of Public Health
2015-2018	Guest lecturer PUBH 6121: Environmental and Occupational Epidemiology GWU Milken Institute School of Public Health
2015-2017	Guest Lecturer

Environmental and Occupational Epidemiology (340.680.11)
Johns Hopkins Bloomberg School of Public Health

Students and Trainees: Mentoring and Advising

MPH Students

- Kristiann Fry
2017 MPH Practicum Preceptor and Culminating Experience Advisor/Preceptor
Persistent Organic Pollutants and All-Cause Mortality in the United States, 2003-2011
2017 GWU Research Days Judge's Choice Award
- Autumn Hulling
2018 MPH Culminating Experience Advisor/Preceptor
Indicators of Acculturation and Blood Lead Levels Among Children in United States, National Health and Nutrition Examination Survey, 1999-2014
- Elizabeth Heitz
2018 MPH Culminating Experience Advisor/Preceptor
Association of Self-Reported Hearing Loss and Injury from Falls in a Nationally Representative Sample of US Adults
- Sankeerth Jinna
2018 MPH Culminating Experience Faculty Advisor
NEXTFORCE Program SDQ Evaluation
- Alia Murphy
2018 MPH Practicum Preceptor
2019 MPH Culminating Experience Advisor/Preceptor
Adult Changes in Thought Study (ACT): Military Service, Traumatic Brain Injury, and Late Life Health Outcomes
- Danielle Kincaid
2018 MPH Practicum Preceptor
- Clara Fitzgerald
2019 MPH Culminating Experience Advisor/Preceptor
Nursing Home Compare: An Analysis of Staffing Star Scores After the Transition from Self-Reported Data to Payroll Based Journal System Data
- Chenyu (Sarah) Zhang
2019 MPH Culminating Experience Advisor/Preceptor
Assessing the Association Between Obesity and Bone Mineral Density

- Erin Bennett
 2019 MPH Practicum Preceptor
 2010 MPH Culminating Experience Advisor/Preceptor
The Association Between Midlife Lipid Levels and Late-Life Brain Amyloid Accumulation
- Abraham Kwan
 2019 MPH Practicum Preceptor
 2020 MPH Culminating Experience Advisor/Preceptor
Cognitive Impairment in the Absence of Dementia Post-Lacunar Stroke: Predictor for Recurrent Strokes and Vascular Events
- Brittany Engelman
 2019 MPH Practicum Preceptor
- Elizabeth Joy
 2021 MPH Practicum Preceptor
 2021 MPH Culminating Experience Advisor/Preceptor
Predicting Discordance Between Research Based Dementia Diagnosis and Dementia Diagnosis from Hospitalization Codes and Death Certificates
- Laila Handoo
 2021 MPH Culminating Experience Advisor
CMS Nursing Home Five-Star Quality Ratings and Its Correlation with COVID19
- Brandon Jackson
 2021 MPH Culminating Experience Advisor
An Investigation Examining the Association of COVID-19 Resident Infections and Percent COVID-19 Deaths as a Share of All Resident Deaths in Nursing Homes with 5-Star Quality Measure Ratings in the United States
- Sylvie Schneider
 2021 MPH Practicum Preceptor
- Liliana Zigo
 2021 MPH Practicum Preceptor
- Alyssa Jones
 2021 MPH Practicum Preceptor
 2022 MPH Culminating Experience Advisor/Preceptor
Predictors of delayed health care among U.S. Medicare beneficiaries during the covid-19 pandemic: findings from the National Health and Aging Trends Study
 2022 Department of Epidemiology CE Award Winner
- Madison Iskra
 2023 MPH Culminating Experience Advisor

Isabelle Wal
2023 MPH Culminating Experience Advisor

PhD Students

2017 Anya Agopian, PhD Candidate
Biostatistical Consulting Practicum Faculty Advisor

2017 Farah Mouhanna, PhD Candidate
Biostatistical Consulting Practicum Faculty Advisor

2018 Matt Levy, PhD Candidate
PhD Dissertation Reader/Reviewer

2019-2023 Dan Park, PhD Candidate
PhD Dissertation Committee Member

2019-2022 Kan Gianattasio, PhD Candidate
Faculty Mentor

2023 Jing Wu, PhD Candidate (Karolinska Institutet, Stockholm, Sweden)
Opponent at Dissertation Defense

2023- Ziwei Song, PhD Candidate

2023- Joya Bhattacharyya, PhD Candidate

Postdoctoral Fellows

2019 - 2021 Jingkai Wei
Postdoc Mentor
Next position: Assistant Professor, University of South Carolina (tenure-track)

2022 - present Chelsea Liu
Postdoc Mentor

Medical Students

2021 - 2022 Sofia Chernat
Mentor, Community and Urban Health Curriculum Scholarly Project

Research Professors

2022 - present Emma Stapp

Mentored Staff

2023- Katie Thompson
GWU MPH Student

- Graduate Research Assistant

2023- Marissa Paolangeli
GWU MPH Student

- Graduate Research Assistant

2022- Maiya MacAlpine
GWU MPH Student

- Graduate Research Assistant

2022-2023 Shay Lukas
GWU MPH Student

- Graduate Administrative Assistant

2022 Connor Smith
GWU MPH Student

- Graduate Administrative Assistant

2021-2022 Lydia Wilson
GWU MPH Student (degree conferred in 2022)

- Graduate Research Assistant

2021-present Katie Lynch

- Research Associate

2021-2022 Victoria Willens
GWU MPH Student (degree conferred in 2022)

- Graduate Administrative Assistant

2020-2021 Naa Adoley Parker-Allotey
GWU MPH Student (degree conferred in 2020)

- Graduate Research Assistant (2020)
- Research Assistant (2021)

2019-2021 Brittany Engelman
GWU MPH Student (degree conferred in 2021)

- Graduate Research Assistant (2019-2020)
- Senior Research Assistant (2020)

2019-2020 Alia Murphy
GWU MPH Student (degree conferred in 2019)

- Administrative Assistant (2019-2020)

- 2019-2020 Abraham Kwan
 GWU MPH Student (degree conferred in 2020)
 - Graduate Research Assistant (2019-2020)

- 2019-2020 Sam Powers
 GWU MPH Student (degree conferred in 2020)
 - Graduate Research Assistant (2019-2020)

- 2017-2021 Kan Gianattasio
 GWU PhD student, Health Policy and Management
 - Senior Research Assistant (2017-2018)
 - Research Associate (2018-2020)
 - Senior Research Associate (2020-2021)

- 2018-present Erin Bennett
 GWU MPH Student (degree conferred in 2019)
 - Graduate Research Assistant (2018-2019)
 - Research Associate (2019-2021)
 - Senior Research Associate (2021-present)

- 2019 Yi Zhang
 GWU PhD Student, Statistics
 - Graduate Research Assistant (2019)

- 2018-2019 Xiang Li
 GWU PhD Student, Statistics
 - Graduate Research Assistant (2018)

- 2016-2017 Brandon Blouse
 GWU MPH Student (degree conferred in 2017)
 - Graduate Research Assistant