MELINDA C. POWER, ScD

WORK ADDRESS:

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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

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

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

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.

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

R03 AG075265 8/2022-7/2024 NIH/NIA (PI: Power)

Title: Midlife statin use and late life cognition

Role: Pl

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 August 2022:

Google Scholar h-index: 37, Google Scholar i10-index: 60

Articles in Refereed Journals

- 1. Schmidt K, Power MC, Ciarleglio A, Nadareishvili Z. (in press) Post-stroke cognitive impairment and the risk of stroke recurrence and death in patients with insulin resistance. <u>Journal of Stroke and Cerebrovascular Diseases</u>
- 2. 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, Thamthitiwat 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.
- 3. Gianattasio KZ, Moghtader A, Lupu D, Prather C, **Power MC** (2022). Federal policy changes to the hospice benefit and use of hospice for persons with Alzheimer disease and related dementias, a cross-sectional study of Medicare claims. <u>JAMA Health Forum</u>, 3(5):e220900.
- 4. 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.
- 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. <u>Journals of Gerontology: Series A, Biological Sciences and Medical Sciences</u>, 77(6):1272-1278.
- 6. 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. <u>JAMA Otolaryngology-Head & Neck Surgery</u>, 148(3):243-251.
- 7. 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. <u>Alzheimer's & Dementia: Translational Research & Clinical Interventions</u>, 7(1):e12237.
- 8. **Power MC**, Engelman B, Wei J, Glymour MM (online ahead of print). Closing the gap between observational research and randomized controlled trials for prevention of Alzheimer's Disease and dementia. <u>Epidemiologic Reviews.</u>
- 9. **Power MC**, Murphy AE, Gianattasio KZ, Zhang Y, Walker RL, Crane PK, Larson E, Gibbons LE, Kumar RG, Dams-O'Connor (online ahead of print). Association of military employment with late life cognitive decline and dementia: A population-based prospective cohort study. Military Medicine.
- 10. 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. <u>Arch Phys Med Rehabilitation</u>, 102 (12):2316-2324.
- 11. 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. <u>American Journal of Epidemiology</u>, 191(7):1202-1211.
- 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. <u>Environmental Health Perspectives</u>, 129(9):96001
- 13. César-Freitas KG, Suemoto CK, **Power MC**, Brucki SM, Nitrini R (2022). Incidence of dementia in a Brazilian population: the Tremembé Epidemiologic Study. <u>Alzheimer's and Dementia</u>, 18(4):581-590.
- 14. 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. <u>Journals of Gerontology: Series A, Biological Sciences and Medical Sciences</u>, 77(3): 640-646.
- 15. 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.
- 16. 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

- 17. 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. <u>Epidemiology</u>, 32(5):638-647
- 18. Kwan A, Wei J, Dowling MN, **Power MC***, Nadareishevili Z* (2021). Cognitive impairment after lacunar stroke and the risk of recurrent stroke and death. <u>Cerebrovascular Diseases</u>, 50(4): 383-389. *Co-last author
- 19. 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. <u>Alzheimer's & Dementia</u>, 17(8):1265-1276
- 20. 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
- 21. 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. <u>Journal of Affective Disorders</u>, 281:376-383
- 22. 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
- 23. **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
- 24. **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
- 25. Croll PH, Vernooij MW, Reid RI, Goedegebure A, **Power MC**, Rigters 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. <u>Alzheimer's & Dementia</u>, 16(11): 1515-1523
- 26. 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. <u>Journal of the American Heart Association</u>, 9(6):e014868

- 27. 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. <u>Journal of the Neurological Sciences</u>, 414:116866
- 28. 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. <u>Neurobiology of Aging</u>, 92:73-74
- 29. 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. <u>Alzheimer's & Dementia</u>, 16(6): 853-861
- 30. 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. <u>Clinical Journal of the American Society of Nephrology</u>, 15(3):311-319 *Co-last authors.
- 31. 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. <u>PLOS One</u>, 15(2):e0229519
- 32. **Power, MC** (2020). Growing evidence links air pollution to risk of Alzheimer's disease and related dementia. <u>Brain</u>,143(1):8-10
- 33. Gianattasio, KZ, Prather, C, Glymour, MM, Ciarleglio, A, **Power, MC** (2019). Racial disparities and temporal trends in dementia misdiagnosis risk in the United States. <u>Alzheimer's & Dementia: Translational Research & Clinical Interventions</u>, 5:891-898
- 34. 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. <u>Journal of the American Geriatrics Society</u>, 68(2): 337-345
- 35. **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
- 36. 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. <u>Public Health Nutrition</u>, 23(5):812-820
- 37. 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 latelife blood pressure patterns with incident dementia. <u>JAMA</u>, 322(6):535-545
- 38. 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. <u>Diabetes Care</u>, 42(7):1248-1254
- 39. 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. <u>Journal of the American Geriatrics Society</u>, 67(11):2353-2361
- 40. 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. <u>Journal of Alternative and Complementary Medicine</u>, 25(8):840-844
- 41. 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. <u>Otolaryngology-Head and Neck Surgery</u>, 161(6):996-1003
- 42. 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. <u>Epidemiology</u>, 31(1):126-133
- 43. 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
- 44. 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. <u>JAMA Network Open</u>, 2(5):e193359

- 45. 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. <u>Journal of the American Geriatrics Society</u>, 67(7): 1410-16
- 46. 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. <u>Stroke</u>, 50(4): 989-991
- 47. Pokharel Y, Mouhanna F, Nambi V, Virani S, Hoogeveen R, Alonso A, Heiss G, Coresh J, Mosley TH, Gottesman RF, Ballantyne C, **Power MC** (2019). ApoB, Small-Dense LDL-C, Lp (a), LpPLA2 activity and cognitive change. Neurology, 92(22): e2580-e2593
- 48. Palta P, Sharrett AR, Wei J, Meyer ML, Kucharska-Newton A, **Power MC**, Deal JA, Jack C, Knopman D, Wright J, Griswold ME, Tanaka H, Mosley T, Heiss G (2019). Central arterial stiffness is associated with structural brain damage and poorer cognitive performance: the ARIC Study. <u>JAHA: Journal of the American Heart Association</u>, 8(2):e011045
- 49. Cifu G, **Power MC**, Shomstein S, Arem H (2018). Mindfulness-based interventions and cognitive function among breast cancer survivors: A systematic review. BMC Cancer, 18(1): 1163
- 50. Gianattasio KZ, Wu Q, Glymour MM, Power MC (2019). Comparison of methods for algorithmic classification of dementia status in the Health and Retirement Study. <u>Epidemiology</u>, 30(2):291-302
- 51. Power, MC, Mormino, E, Solden, A, James, BD, Lei, Y, Armstrong, NM, Bangen, KJ, Delano-Wood, L, Lamar, M, Lim, YY, Nudelman, K, Zahodne, L, Gross, AL, Mungas, D, Widaman, KF, Schneider, J. (2018) Combined neuropathological pathways account for age-related dementia risk. <u>Annals of Neurology</u>, 84(1):10-22.
- 52. Walker KA, Windham BG, **Power MC**, Hoogeveen RC, Folsom AR, Ballantyne CM, Knopman DS, Selvin E, Jack CR, Gottesman RG (2018). The association of mid- to late-life systemic inflammation with white matter structure in older adults: The ARIC Study. Neurobiology of Aging, 68:26-33
- 53. Bahouth M, **Power MC**, Zink EK, Kozeniewski K, Kumble S, Deluzio S, Urrutia VC, Stevens RD (2018). Safety and feasibility of a neuroscience critical care program to mobilize patients with primary intracerebral hemorrhage. <u>Archives of Physical Medicine and Rehabilitation</u>, 99(6):1220-1225
- 54. **Power MC**, Lamichhane AP, Liao D, Xu X, Jack CR, Gottesman RF, Mosley T, Stewart JD, Yanosky JD, Whitsel EA (2018). The association of long-term

- exposure to particulate matter air pollution with brain MRI findings: the ARIC study. Environmental Health Perspectives, 126(2):027009
- 55. Zhang X, Xu X, Zhong Y, **Power MC**, Taylor B, Garrillo G (2018). Serum folate levels and urinary arsenic methylation profiles in the US population: NHANES, 2003–2012. Exposure Science and Environmental Epidemiology, 10.1038/s41370-018-0021-5
- 56. Fry K, **Power MC** (2017). Persistent organic pollutants and mortality in the United States, NHANES 1999-2011. <u>Environmental Health</u>, 16(1):105
- 57. Walker KA, **Power MC**, Hoogeveen RC, Folsom AR, Ballantyne CM, Knopman DS, Windham BG, Selvin E, Jack CR, Gottesman RF (2017). Midlife systemic inflammation, late-life white matter integrity, and cerebral small vessel disease: The ARIC Study. <u>Stroke</u>, 48(12):3196-3202
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- 76. **Power MC**, Deal JA, Sharrett AR, Jack CR, Knopman D, Mosley TH, Gottesman RF (2015). Smoking and white matter hyperintensity progression: The ARIC-MRI study. Neurology, 84:1-8
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Chapters in Books

1. **Power MC**, Weisskopf MG (2012). Lead: Neurotoxic Effects in Adults. <u>The</u> 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

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 <i>Power, MC</i> 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

2018 Metals, Cognitive Aging, and Dementia *Power, MC*

San Francisco, CA (UCSF)

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

May 1, 2018

October 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

lifecourse 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

Johns Hopkins Bloomberg School of Public Health

Baltimore, MD

September 25, 2012

Conference Poster Presentations

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, Moslev, 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

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

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

- 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
- 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 Wenne | Sharrett AR Righter D Cottomer RE

Power, MC, Weuve, J, Sharrett, AR, Blacker, D, Gottesman, RF **American Heart Association EPI/Lifestyle 2015 Annual Meeting** Baltimore, MD -- March 3-6, 2015

- 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

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, Korrick, S, Grodstein, F, Hu, H, Rosner, B, Weisskopf, 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, Weisskopf, 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, Weisskoph, 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

Power, MC, Deal, JA, Sharrett, AR, Jack, CR, Knopman, D, Mosley, TH,

Conference Oral Presentations

Honolulu, HI - July 9-15, 2010

International Conference on Alzheimer's Disease (ICAD)

2022 Epidemiology of Air Pollution, Dementia, and related Outcomes: W hat 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 Gianattassio, 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

2021 – present Chair

2018 – 2021 Elected Member

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

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-present)
- 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

Grant Review Activities

March 2022 NIH/PSE Reviewer February 2022 NIH/PSE Reviewer

February 2021 NIH/NAME Study Section Ad Hoc Reviewer October 2019 NIH/NAME Study Section Ad Hoc Reviewer

November 2018 NIA Study Section Reviewer, Special Study Section for RFA-AG-

19-002

External Organization Reviewer Activities

2021	External Reviewer, 2022 Alzheimer's Association Facts and Figures
2020	External Reviewer, 2021 Alzheimer's Association Facts and Figures
2019	External Reviewer, 2020 Alzheimer's Association Facts and Figures

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

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/Consultantships with External Organizations

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

2020 – Alliance to Improve Dementia Care, Member

2020 – 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

Atherosclerosis Risk in Communities (ARIC) Study Cohort Service

2019-2020	Co-Chair, ARIC Environmental Working Group
2013-	Member, ARIC Neurocognitive Study - Neurocognitive Analysis Working
	Group
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2013-2017 Member, ARIC Neurocognitive Study - MRI Analysis Working Group

2013-2015 Contributor, ARIC Analysis Manual:

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

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 Brian 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

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-	Dan Park, PhD Candidate PhD Dissertation Committee Member
2019-2022	Kan Gianattasio, PhD Candidate Faculty Mentor

Postdoctoral Fellows

2019 - 2021 Jingkai Wei,

Next position: Assistant Professor, University of South Carolina (tenure-track)

Medical Students

2021 - 2022 Sofia Chernat

Mentor, Community and Urban Health Curriculum Scholarly Project

Mentored Research Staff

2021-2022 Lydia Wilson

GWU MPH Student

Graduate Research Assistant

2021-present Katie Lynch

Research Associate

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	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 Gianattassio 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