

Curriculum Vitae

Revised: 6/13/25

Helen C. S. Meier, Ph.D., M.P.H.

WORK ADDRESS: University of Michigan
Institute for Social Research
Survey Research Center
Population, Neurodevelopment, & Genetics Program
426 Thompson Street
Ann Arbor, MI
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EDUCATION

- 2011-2015 **Ph.D.** in Epidemiologic Sciences, University of Michigan School of Public Health, Ann Arbor, MI
- 2008-2010 **M.P.H.** in Hospital & Molecular Epidemiology, University of Michigan School of Public Health, Ann Arbor, MI
- 2002-2006 **B.A.** with distinction in Human Biology (concentration in Bioethics), University of Virginia, Charlottesville, VA

EXPERIENCE – Academic and Professional Positions (since 2010)

- 2024 – current Research Assistant Professor, Population, Neurodevelopment, and Genetics Program, Survey Research Center, Institute for Social Research, University of Michigan, Ann Arbor, MI
- 2021 – 2024 Assistant Research Scientist, Population, Neurodevelopment, and Genetics Program, Survey Research Center, Institute for Social Research, University of Michigan, Ann Arbor, MI
- 2022 LEO Adjunct Lecturer, Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI
- 2016 – 2020 Assistant Professor of Epidemiology, Joseph J. Zilber School of Public Health, University of Wisconsin – Milwaukee, Milwaukee, WI
- 2015 – 2016 Intramural Research Training Award (IRTA) Postdoctoral Fellow, Epidemiology Branch National Institute of Environmental Health Sciences, Research Triangle Park, NC and Translational Gerontology Branch, National Institute on Aging, Baltimore, MD
- 2010- 2014 Detroit Neighborhood Health Study Coordinator, Aiello Research Group, Department of Epidemiology University of Michigan School of Public Health, Ann Arbor, MI
- 2009-2010 Research Assistant, Cardioprotection Research Group, Department of Cardiology University of Michigan Medical School, Ann Arbor, MI

HONORS & AWARDS

2022	Population Dynamics and Health Program New Investigator Mentoring Program
2021-2022	Michigan Center for Contextual Factors in Alzheimer's Disease Research Scientist
2019	Shaw Scientist Award, Greater Milwaukee Foundation
2015	6 th Annual Harburg Student Award for Excellence in Social Epidemiology, Center for Social Epidemiology and Population Health, University of Michigan School of Public Health
2014	Department of Epidemiology Block Grant Award, University of Michigan School of Public Health
2013	Rackham Conference Travel Grant, University of Michigan
2010	Hunein F. Maassab Award for Excellence in Molecular Epidemiology, University of Michigan School of Public Health, Department of Epidemiology
2009-2010	Deans Award Scholarship, University of Michigan School of Public Health
2002-2006	Echols Scholar, University of Virginia
2002-2006	Phi Eta Sigma Honor Society, University of Virginia
2002-2006	National Society of Collegiate Scholars, University of Virginia

PEER-REVIEWED PUBLICATIONS

([‡]Student Author, [^]Post-Doc, [†]Senior Author, *Corresponding & Senior Author)

1. Woo, J.M.P.[‡], Lawrence, K.G., Xu, Z., Auer, P.L., Simanek, A.M., Konkell, R.H., Taylor, J.A., **Meier, H.C.S.**[†], Sandler, D.P. Early life trauma patterns and adult epigenome-wide and NR3C1-specific DNA methylation in the Sister Study. *Am J Epi*. 2025. [In press]
2. Lima, S.M.[‡], Palermo, T.M., Aldstadt, J., Tian, L., **Meier, H.C.S.**, Louis, H.T. Jr, Ochs-Balcom, H.M. Historical redlining and clustering of present-day breast cancer factors. *Cancer Causes Control*. 2025 May;36(5):483-495. PMID: 39755825.
3. Lima, S.M.[‡], Palermo, T.M., Lee, F.F., Insaf, T.Z., **Meier, H.C.S.**, Tian, L., Taylor, H.L., Erwin, D.O., Ochs-Balcom, H.M. Historical redlining and all-cause survival after breast cancer diagnosis. *Cancer Epidemiol Biomarkers Prev*. 2025 Apr 3. Epub ahead of print. PMID: 40178940.
4. Laurent, S.E.[^], Malcoe, L.H., Laestadius, L., Mitchell, C., Hyde, L.W., Monk, C.S., **Meier, H.C.S.*** Historic structural racism and perceived stress in adolescents. *J Adolesc Health*. 2025 Mar 21:S1054-139X(25)00044-8. PMID: 40117389.
5. Xu, L., Li, C., Aiello, A.E., Langa, K., Dowd, J.B., Stebbins, R., **Meier, H.C.S.**, Noppert, G., Li, G. Compositional analysis of lymphocytes and their relationship with health outcomes: findings from the Health and Retirement Study. *Immunity & Ageing*. 2025 Mar 12;22(1):12. PMID: 40075474.
6. Parks, C.P., Jusko, T.A., **Meier, H.C.S.**, Wilkerson, J., Rider, L.G., Miller, F.W., Sandler, D.P. Sunscreen use associated with elevated prevalence of anti-nuclear antibodies in U.S. adults. *Journal of Autoimmunity*. 2024 Dec;149:103340. PMID: 39581147.
7. Karadimas, T.[‡], **Meier, H.C.S.*** Association between coexisting hypertension, dyslipidemia, and elevated C-reactive protein with cardiovascular disease and mortality: A cross-sectional and longitudinal analysis in a representative cohort of older US adults. *BMJ Public Health*. 2024 Jul;2(2):e000455. PMID: 39583776.

8. Chen, L.[^], Mitchell, B.C., Richardson, J., **Meier, H.C.S.*** Home mortgage lending and neighborhood mental health: a spatial econometric analysis of 18 U.S. metropolitan statistical areas. *Journal of Urban Health*. 2025 Feb;102(1):35-48. PMID: 39470868.
9. Chang, O.D.[‡], **Meier, H.C.S.**, Maguire-Jack, K. Davis-Kean, P., Mitchell., C. Childhood maltreatment and longitudinal epigenetic aging: NIMPH Social Epigenomics Program. *JAMA Network Open*. 2024 Jul 1; 7(7):e2421877. PMID: 39073816.
10. Karadimas, T.[‡], **Meier, H.C.S.*** Association between coexisting hypertension, dyslipidemia, and elevated C-reactive protein with cardiovascular disease in the Health and Retirement Study. *University of Michigan Undergraduate Research Journal*. 2024 March 8; 17.
11. Westrick, A.C., Esiaka, D.K., **Meier, H.C.S.**, Rooks, R.N., Manning, M., Tarraf, W. Cognition and wealth changes in mid-to-later life: a latent class trajectories approach using the Health and Retirement Study. *Journal of Aging and Health*. 2024 Oct;36(9):510-522. PMID: 38356174.
12. Seshadri, G., Vivek, A., Prizment, A., Crimmins, E.M., Klopach, E.T., Faul, J.D., Guan, W., **Meier, H.C.S.**, Thyagarajan, B. Immune cells are associated with mortality: the Health and Retirement Study. *Frontiers of Immunology*. 2023 Oct 20:14:1280144. PMID: 37928548.
13. Ramasubramanian, R., Kim, J.W., Guan, W., **Meier, H.C.S.**, Crimmins, E., Faul, J., Thyagarajan, B. Cohabitation as a determinant of adaptive and innate immune cell profiles: Findings from the Health and Retirement Study. *Brain, Behavior, & Immunity – Health*. 2023 Aug 18;33:100676. PMID: 37663036.
14. **Meier, H.C.S.**, Mitchell, C., Karadimas, T.[‡], Faul, J.D. Systemic inflammation and biological aging in the Health and Retirement Study. *Geroscience*. 2023 Dec; 45(6):3257-3265. PMID: 37501048.
15. Simanek, A.M., Xiong, M., Woo, J.M.P, Zheng, C., Zhang, Y.S., **Meier, H.C.S.**, Aiello, A.E. Association between prenatal socioeconomic disadvantage, adverse birth outcomes, and inflammatory response at birth. *Psychoneuroendocrinology*. 2023 Jul; 153:106090. PMID: 37146471.
16. Vivek, S., Crimmins, E.M., Prizment, A.E., **Meier, H.C.S.**, Ramasubramanian, R., Barcelo, H., Faul, J., Thyagarajan, B. Age-related differences in T-cell subsets and markers of subclinical inflammation in aging are independently associated with type 2 diabetes in the Health and Retirement Study. *Canadian Journal of Diabetes*. 2023 Oct; 47(7):594-602. PMID: 37269981.
17. Peterson, M.D., Collins, S., **Meier, H.C.S.**, Brahmsteadt, A., Faul, J.D. Grip strength is inversely associated with DNA methylation age acceleration. *Journal of Cachexia, Sarcopenia and Muscle*. 2023 Feb; 14(1):108-115. PMID: 336353822.
18. Klopach E.T., Thyagarajan, B., Faul, J.D., **Meier, H.C.S.**, Ramasubramanian, R., Kim J.K., Crimmins, E.M. Socioeconomic status and immune aging in older US adults in the Health and Retirement Study. *Biodemography and Social Biology*. 2022 Dec 6; 67(3-4):187-202. PMID: 36472376.
19. Simanek, A.M., Manansala, R., Woo, J.M.P., **Meier, H.C.S.**, Needham, B.L., Auer, P.L. Prenatal socioeconomic disadvantage and epigenetic alterations at birth among children born to White British and Pakistani mothers in the Born in Bradford Study. *Epigenetics*. 2022 Dec; 17(13):1976-1990. PMID: 35837690.

20. Wing, J.J., Lynch, E.E. ‡, Laurent, S.E. ‡, Mitchell, B., Richardson, J., **Meier, H.C.S.** † Historic redlining in Columbus, Ohio associated with stroke prevalence. *Journal of Stroke and Cerebrovascular Diseases*. 2022 Dec; 31(12):106853. PMID: 36323167.
21. Woo, J.M.P. ‡, Parks, C.G., Lynch, E.E. ‡, Auer, P.L., Simanek, A.M., Headley Konkel. R., Taylor, J., Sandler, D.P., **Meier, H.C.S.*** Early life trauma and adult leucocyte telomere length. *Psychoneuroendocrinology*. 2022 Oct; 144:105876. PMID: 35939862.
22. Parks C.G., **Meier, H.C.S.**, Jusko, T.A., Wilkerson, J. Miller, F.W., Sandler, D.P. Benzophenone-3 and antinuclear antibodies in U.S. adolescents and adults ages 12-39 years. *Frontiers in Immunology*, 2022 Sept 13; 13:958527. PMID: 36177040.
23. Woo, J.M.P. ‡, Simanek, A.M., O'Brien, K.M., Parks, C.P., Gaston, S., Auer, P.L., Headley Konkel. R., Jackson, C.L., **Meier, H.C.S.** †, Sandler, D.P. Latent class models of early life trauma and incident breast cancer risk. *Epidemiology*. 2022 Sep 1; 33(5):729-738. PMID: 35580243.
24. Ramasubramanian, R., **Meier, H.C.S.**, Vivek, S., Klopach, E., Crimmins, E.M., Faul, J., Nikolich-Zugich, J., Thyagarajan, B. Evaluation of T-cell aging-related immune phenotypes in the context of biological aging and multimorbidity in the Health and Retirement Study. *Immunity & Aging*. 2022 Jul 20; 19:33. PMID: 35858901.
25. **Meier, H.C.S.***, Sandler, D. P., Wilkerson, J., Miller, F. W., Dinse, G. E., Parks, C. G. Hygiene Hypothesis Indicators and Prevalence of Antinuclear Antibodies in US Adolescents. *Frontiers in Immunology*. 2022 Jan 28; 13:789379. PMID:35154106.
26. Lynch, E. E. ‡, Malcoe, L. H., Laurent, S. E. ‡, Richardson, J., Mitchell, B. C., & **Meier, H.C.S.*** The legacy of structural racism: Associations between historic redlining, current mortgage lending, and health. *SSM - Population Health*. 2021. 14, 100793.
27. Wing, J. J., Lynch, E. E. ‡, Laurent, S. E. ‡, Mitchell, B. C., Richardson, J., & **Meier, H.C.** † Abstract P873: Structural Racism in Columbus, Ohio Associated With Stroke Prevalence. *Stroke*. 2021. 52(Suppl_1), AP873-AP873.
28. Simanek, A.M., **Meier, H.C.S.**, D'Aloisio, A.A., Sandler, D.P. Objective and Subjective Childhood Socioeconomic Disadvantage and Incident Depression in Adulthood: A Longitudinal Analysis in the Sister Study. *Social Psychiatry and Psychiatric Epidemiology*. 2021 Apr 21. Epub ahead of print. PMID: 33881563.
29. Noppert, G., Feinstein, L., Dowd, J.B., Stebbins, R., Zang, E., Needham, B., **Meier, H.C.S.**, Simanek, A.M.S., & Aiello, A.E. Pathogen Burden and Leukocyte Telomere Length in the United States. *Immunity & Ageing*. 17, 36; 2020 Nov 19. PMID: 28879822.
30. Shoeb, M., **Meier H.C.S.** & Antonini, J.M. Telomeres in Toxicology: Occupational Health. *Pharmacology & Therapeutics*. 2020 Nov 8; 107742. PMID: 33176178.
31. Lynch, E.E. ‡ & **Meier, H.C.S.*** The intersectional effect of poverty, home ownership, and racial/ethnic composition on mean childhood blood lead levels in Milwaukee County neighborhoods. *PLoS ONE*. 15(6): e0234995. PMID: 32559243.

32. Chesley, N., **Meier, H.C.S.**, Luo, J., Apchemengich, I., and Davies, W. H. Social Context Shaping Adoption of Point-of-Use Water Filtration Systems: An Observational Study of an MTurk Sample. *Journal of Water and Health*. 2020 Aug;18(4):505-521. PMID: 32833677.
33. **Meier, H.C.S.***, Sandler, D.P., Simonsick, E.M., Wang, N.P. and Parks, C.G. Sex differences in the association between antinuclear antibody positivity with diabetes and multimorbidity in older adults: results from the Baltimore Longitudinal Study of Aging. *Experimental Gerontology*. 2020 Jul 1;135:110906. PMID: 32145292.
34. **Meier, H.C.S.*** Miller, F.W., Dinse, G.E., Weinberg, C.R., Cho, C.C., & Parks, C.G. *Helicobacter pylori* seropositivity is associated with antinuclear antibodies in US adults, NHANES 1999-2000. *Epidemiology and Infection*. 2020 Feb 5;148:e20. PMID: 32019616.
35. **Meier, H.C.S.***, Parks, C.G., Liu, H.B., Sandler, D.P., Simonsick, E.M., Deane, K.D. and Weng, N.P.* Cellular aging over 13 years associated with incident antinuclear antibody positivity in the Baltimore Longitudinal Study of Aging. *Journal of Autoimmunity*. 2019 Dec;105:102295. PMID: 31303354.
36. **Meier, H.C.S.***, Hussein, M., Needham, B., Barber, S., Lin, J., Seeman, T. and Diez Roux, A. Cellular Response to Chronic Psychosocial Stress: Ten-year Longitudinal Changes in Telomere Length in the Multi-Ethnic Study of Atherosclerosis. *Psychoneuroendocrinology*. 2019 Apr 29; 107:70-81. PMID: 31112903.
37. Brenner, N., Mentzer, A.J., Butt, J., Michel, A., Prager, K., Brozy, J., Weißbrich, B., Aiello, A.E., **Meier, H.C.S.**, Breuer, J., Almond, R., Allen, N., Pawlita, M. and Waterboer, T. Validation of Multiplex Serology Detecting Human Herpesviruses 1-5. *PLoS One*. 2018 Dec 27; 13(12):e0209379. PMID: 30589867.
38. Dinse, G.E., Parks, C.G., **Meier, H.C.S.**, Co, C.A., Chan, E.K.L., Jusko, T.A., Yeh, J. and Miller, F.W. Prescription medication use and antinuclear antibodies in the United States, 1999-2004. *Journal of Autoimmunity*. 2018 Aug; 92:93-103. PMID: 29779929.
39. Dinse, G.E., Parks, C.G., Weinberg, C.R., **Meier, H.C.S.**, Co, C.A., Chan, E.K.L., Dillon, C.F. and Miller, F.W. Antinuclear antibodies and subsequent mortality of participants in the National Health and Nutrition Examination Survey, 1999-2004. *PLoS One*. 2017 Oct 9; 12(10):e0185977. PMID: 29016697.
40. Aiello, A.E., Jayabalasingham, B., Diez-Roux, A., **Meier, H.C.S.**, Simanek, A.M., Needham, B., Seeman, T., Chen S. and Dowd, J.B. The impact of pathogen burden and immune response on leukocyte telomere length in the Multi-Ethnic Study of Atherosclerosis. *Epidemiology & Infection*. 2017 Sept;7:1-9. PMID: 28879822.
41. Simonsick, E.M., **Meier, H.C.S.**, Chiles, N.S., Studenski, S.A., Ferrucci, L. Basal Body Temperature as a Biomarker of Healthy Aging. *AGE*. 2016 Dec; 38 (5-6):445-454. PMID: 27785691.
42. **Meier, H.C.S.**, Sandler, D.P., Simonsick, E.M. and Parks, C.G. Association between vitamin D deficiency and antinuclear antibodies in middle age and older U.S. adults, NHANES 2001-2004. *Cancer Epidemiology, Biomarkers & Prevention*. 2016 Dec; 25(12):1559-1563. PMID: 27543618.
43. **Meier, H.C.S.**, Haan, M.H., Mendes de Leon, C.F., Simanek, A.M., Dowd, J.B. and Aiello, A.E. Life Course Socioeconomic Position and Immune Response to Persistent Infections in Elderly Latinos. *Social Science & Medicine*. 2016 Oct; 166:77-85. PMID: 27543684.

44. Simanek, A.M. and **Meier, H.C.S.** Association Between Prenatal Exposure to Maternal Infection and Offspring Mood Disorders: A Review of the Literature. *Current Problems in Pediatric and Adolescent Health Care*. 2015 Nov;45 (11):325-64. PMID: 26476880.
45. Weckle, A., Aiello, A.E., Uddin, M., Galea, S., Colborn, R.M., Soliven, R., **Meier, H.**, Wildman, D.E. Rapid Fractionation and Isolation of Whole Blood Components in Samples Obtained from a Community-based Setting. *J Vis Exp*. 2015 Nov 30; (105). PMID: 26649992.
46. McCarty, C.A., Huggins W., Aiello A.E., Bilder R.M., Hariri, A., Jernigan, T.L. Newman, E., Sanghera, D.K., Strauman, T.J., Zeng, Y., Ramos, E.M., Junkins, H.A., **PhenX RISING network**. PhenX RISING: real world implementation and sharing of PhenX measures. *BMC Med Genomics*. 2015 Mar 20;7:16. PMID: 24650325.

DATA PRODUCTION

1. Edlebi, J., Mitchell, B., Richardson, J., **Meier, H.C.S.**, Chen, L. Noppert, G. & Gypin, L. National Neighborhood Data Archive (NaNDA): Home Mortgage Disclosure Act Longitudinal Dataset by Census Tract, United States, 1981-2021. ICPSR39093-v1. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2024-05-15. <http://doi.org/10.3886/ICPSR39093.v1>
2. **Meier, H.C.S.** & Mitchell, B.C. Historic Redlining Indicator for 2000, 2010 and 2020 US Census Tracts. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2023-09-25. <https://doi.org/10.3.886/E141121V3>.

OTHER SCHOLARLY WORKS & WHITE PAPERS

1. Mitchell, B., Edlebi, J., **Meier, H.C.S.**, Richardson, J., Chen, L. Decades of Disinvestment: Historic Redlining and Mortgage Lending since 1981. May 2024. Research Report in collaboration with National Community Reinvestment Coalition. Available at: <https://ncrc.org/decades-of-disinvestment/>
2. **Meier, H.C.S.** & Mitchell, B.C. “Tracing the Legacy of Redlining: A new method for tracking the origins of housing segregation.” February 2022. Research report in collaboration with National Community Reinvestment Coalition. Available at: <https://ncrc.org/redlining-score/>.
3. **Meier, H.C.S.**, Richardson, J, Mitchell, B.C., Lynch, E.E., Edlebi, J. “Redlining & Neighborhood Health.” September 2020. Research Report in collaboration with National Community Reinvestment Coalition. Available at: <https://ncrc.org/holc-health/>.

PREPRINTS

1. **Meier, H.C.S.**, Klopach, E.T., Farina, M.P., Hernandez, B., Mitchell, C., Faul, J.D., McCrory, C., Kenny, R.A., Crimmins, E.M. A novel DNA methylation-based surrogate biomarker for chronic systemic inflammation (InfLaMeS): results from the Health and Retirement Study. *medRxiv* [Preprint]. 2024 Oct 15:2024.10.11.24315339. PMID: 39484273.

INVITED TALKS

1. **Meier, H.C.S.** “Place-based factors and health: Spatial through-lines in lending discrimination.” Center for Economic and Social Research, University of Southern California. October 7, 2024.
2. **Meier, H.C.S.** “Place and Health: Historic and modern lending discrimination.” Community Development Advocates of Detroit, Community Development Conference, September 26, 2024.

3. **Meier, H.C.S.** “Using historic maps in studies of structural racism and population health.” Center for Urban and Regional Analysis, The Ohio State University. July 12, 2024.
4. Nelson, R. **Meier, H.C.S.**, McKenzie, B. “Spatial Throughlines: Exploring Historical Redlining and Contemporary Cumulative Impacts.” Environmental Justice Community of Practice, Centers for Disease Control and Prevention, May 15, 2024.
5. **Meier, H.C.S.** “Mortgage lending disparities in the U.S.: New results from the Home Mortgage Disclosure Act (HMDA) Longitudinal Dataset.” Housing Solutions for Health Equity Speaker Series, April 10, 2024.
6. **Meier, H.C.S.** & DeAngelis, R., “Redlining Data from the Home Owners’ Loan Corporation & Mapping Inequality Project.” Network on Life Course Health Dynamics & Disparities in 21st Century America Virtual Workshop. November 3, 2023.
7. **Meier, H.C.S.** “Place-based factors and health: historic structural racism and accelerated biological aging across the life course.” MCCFAD/MCUAAAR Joint Research Scientist Orientation. October 18, 2023.
8. **Meier, H.C.S.** “Redlining & Neighborhood Health Access.” National Community Reinvestment Coalition’s Just Economy Conference. June 16, 2022.
9. **Meier, H.C.S.** “Redlining & Neighborhood Health.” Ignite Presentation at Data You Can Use’s Annual Data Day. October 21, 2020.
10. **Meier, H.C.S.** “From Cells to Society: Molecular and social drivers of population health.” Survey Research Center, Institute for Social Research, University of Michigan, Ann Arbor, MI, June 15, 2020.
11. Moderator. Zilber School of Public Health presents On Public Health: Lead in Milwaukee: A Community-Wide Response. November 18, 2019. Info available at: <https://uwm.edu/publichealth/event/on-public-health-lead-in-milwaukee-a-community-wide-response/>
12. Lead Expert Presenter. League of Women Voters - Milwaukee County; Addressing Lead Issues: A Milwaukee Focus – Public Issues Forum, November 17, 2018.
13. **Meier, H.C.S.** “Predictors and Consequences of Autoimmunity in Aging Populations.” Department of Kinesiology Research Seminar, University of Wisconsin, Madison, WI, September 14, 2018.

OP EDS AND MEDIA APPEARANCES

1. Color Code Podcast, STAT News, “Why COVID-19 wasn’t the ‘great equalizer.’” July 31, 2023. Available at: <https://www.statnews.com/2023/07/31/covid-19-wasnt-great-equalizer/>
2. Mapping Inequality: Redlining in New Deal America, “Redlining and Health.” December 11, 2023. Available at: <https://dsl.richmond.edu/panorama/redlining/health>
3. American Heart Association, “Structural racism: Communities with higher redlining scores had higher rates of stroke.” March 11, 2021. Available at: <https://newsroom.heart.org/news/structural-racism-communities-with-higher-redlining-scores-had-higher-rates-of-stroke>
4. UCLA HealthDay News, “Racist ‘Redlining’ Policies Leave Legacy of Stroke for Black Americans.” March 15, 2021. Available at: <https://healthinfo.uclahealth.org/RelatedItems/6,1650876343>
5. UWM Today radio interview with Tom Luljak, October 22, 2021. “Redlining and Neighborhood Health.”
6. UWM Today radio interview with Tom Luljak, November 28, 2019. “Flu Vaccines: Exploring The Latest Science and Why Not Everyone Gets the Same Benefits.” available at: <https://www.wuwm.com/post/flu-vaccines-exploring-latest-science-why-not-everyone-gets-same-benefits#stream/0>
7. UWM Partners for Health Podcast, November 22, 2019. Available at: https://soundcloud.com/user-588005839-184722050/p4h_ep005
8. Milwaukee Neighborhood News Service, “Forum surfaces ongoing controversy over prime cause of lead poisoning in Milwaukee,” by Abby Ng, November 29, 2018. Available at: https://milwaukeeens.org/2018/11/29/forum-surfaces-ongoing-controversy-over-prime-cause-of-lead-poisoning-in-milwaukee/?mc_cid=d8a7663c40&mc_eid=3a2fd19b9a
9. Lead Expert Panel Member, Milwaukee PBS, “Lead and Our Health” *10thirtysix* Episode #207; May 19, 2018. Recording available at: <https://www.milwaukeepbs.org/local-programs/10thirtysix/>

10. “How City Should Solve Lead in Water,” Op Ed by Noelle Chelsey, Anne Dressel, John Berges, and **Helen Meier**. *Urban Milwaukee*, March 2, 2018. Available at: <https://urbanmilwaukee.com/2018/03/02/op-ed-how-should-city-solve-lead-in-water/>

RESEARCH PRESENTATIONS

([†] Current/former Undergrad or MPH advisee, [‡]Current/former PhD student, [^]Current PostDoc, *Senior Author)

1. Ammous, F. [^], **Meier, H.C.S.**, Mitchel, C., Faul, J.D. Physical activity is associated with lower inflammation and reduced risk of chronic disease in older adults from the Health and Retirement Study. Poster presentation at Population Association of America 2025 Annual Meeting. Washington, D.C. April 11-13, 2025.
2. Lima, S.M., Palermo, T.M., Lee, F.F., Insaf, T.Z., **Meier, H.C.S.**, Tian, L., Taylor Jr., H.L., Erwin, D.O., Ochs-Balcom, H.M. Historic Redlining and All-Cause Survival after Breast Cancer Diagnosis. Best of ASPO - Place, Policy, and Cancer Disparities, ASPO Annual Meeting, April 2025, Philadelphia, PA.
3. Caudill, C. [†], **Meier, H.C.S.**, Wing, J. “Impact of Labor Activism on Historic Geospatial Stroke Mortality in Richmond, Virginia.” Moderated Poster Presentation and Abstract Publication at American Heart Association: International Stroke Conference, Los Angeles, California, February 2025.
4. **Meier, H.C.S.**, Klopach, E., Farina, M., Hernandez, B. Mitchell, C., Faul, J., McCrory, C., Kenny, R.A., Crimmins, E. “A novel DNA methylation-based surrogate biomarker for latent systemic inflammation (InfLaMeS).” Oral presentation at Gerontological Society of America 2024 Annual Meeting. Seattle, WA. November 14, 2024.
5. Laurent, S.E. [^], Chen, L. [^], Mitchell, B., **Meier, H.C.S.*** “Mortgage lending opportunities and adolescent mental health.” Interdisciplinary Association for Population Health Science Conference, St. Louis, MO, September 12, 2024.
6. Chen, L. [^], Mitchell, B., **Meier, H.C.S.*** “Historical HOLC redlining and racial disparities in mortgage lending.” Interdisciplinary Association for Population Health Science Conference, St. Louis, MO, September 12, 2024.
7. Laurent, S.E. [^], Malcoe, L.H., Mitchell, C., **Meier, H.C.S.*** “Historic redlining and accelerated biological aging in U.S. urban adolescents.” Society for Epidemiologic Research Annual Meeting, Austin, TX, June 20, 2024.
8. Laurent, S.E. [^], Malcoe, L.H., Mitchell, C., **Meier, H.C.S.*** “Examining the association between historic redlining and epigenetic aging in adolescents: Results from the Future of Families and Child Wellbeing Study.” The Advances in Social Genomics Conference 2024, Madison, WI, June 6, 2024.
9. Chen, L. [^] & **Meier, H.C.S.*** Urban Voids and Neighborhood Health: Assessing the association between vacant land and health behavior in Chicago. Oral presentation at International Conference on Urban Affairs. New York, NY. April 24-27, 2024.
10. **Meier, H.C.S.**, Laurent, S. [^], Mitchell, B., Faul, J. Mitchell, C., Wing, J.J., Hicken M. Historic Structural Racism and Accelerated Biological Aging Across the Life Course. Oral presentation at Population Association of America Annual Meeting. Columbus, OH. April 18, 2024.
11. **Meier, H.C.S.**, Mitchell, C. COVID-19 in a Vulnerable Population: Results from the Study of Adolescent to Adult Neural Development. Oral presentation at Population Association of America Annual Meeting. Columbus, OH. April 19, 2024.
12. Chang, O. [‡], Mitchell, C., Maguire-Jack, K., **Meier, H.C.S.*** Child Maltreatment and Accelerated Epigenetic Aging: Examining Cumulative Risk and Developmental Sensitivity. Poster presentation at Population Association of America Annual Meeting. Columbus, OH. April 20, 2024.
13. Chen, L. [^] & **Meier, H.C.S.*** Mapping Health Inequities in Six Midwestern Cities: Is Neighborhood Health Associated with Social Segregation? Poster presentation at Association of American Geographers 2023 East Lakes Regional Division. Oregon, OH. November 17, 2023.
14. Laurent, S.E. [‡], Halinka Malcoe, L., **Meier, H.C.S.*** Historic structural racism and perceived stress in adolescents: Results from the Study of Adolescent to Adult Neural Development. Poster presentation at American Public Health Association Annual Meeting. Atlanta, GA. November 14, 2023.
15. Karadimas, T. [‡], **Meier, H.C.S.** “Cardiovascular and Mortality Risk with Coexisting Hypertension, Dyslipidemia and Systemic Inflammation.” Oral presentation at Gerontological Society of America 2023 Annual Meeting. Tampa, FL. November 8-12, 2023.

16. **Meier, H.C.S.** “Biosocial Pathways Affecting Health and Aging in the Health and Retirement Study” Discussant at Gerontological Society of America 2023 Annual Meeting. Tampa, FL. November 8-12, 2023.
17. **Meier, H.C.S.**, “Historic redlining and accelerated biological aging in the Health and Retirement Study.” Poster presentation at Society for Epidemiologic Research Annual Meeting, Portland, OR. June 15, 2023.
18. Wing, J.J., **Meier, H.C.S.**, Rajczyk, J., Powell, J.R., Drum, E., Boden-Albala, B., “Trajectory of longitudinal lending discrimination modifies the efficacy of a skills-based intervention in stroke survivors. Poster presentation at Society for Epidemiologic Research Annual Meeting, Portland, OR. June 14, 2023.
19. Laurent, S.E. ‡, Halinka Malcoe, L., **Meier, H.C.S.*** Historic structural racism and Hair Cortisol Concentration as a Biomarker of Stress in Adolescents. Poster presentation at Society for Epidemiologic Research Annual Meeting, Portland, OR. June 15, 2023.
20. **Meier, H.C.S.**, Mitchell, C., Karadimas, T., Tarraf, W., Manning, M., Esiaka, D., Rooks, R., Westrick, A., Faul, J.D. Systemic inflammation and cognition trajectory in the Health and Retirement Study. Poster presentation at Population Association of America Annual Meeting. New Orleans, LA. April 13, 2023.
21. **Meier, H.C.S.**, Mitchell, C., Karadimas, T., Faul, J.D. A latent variable for systemic inflammation in the Health and Retirement Study. Oral Presentation at NIA Biomarker Network, New Orleans, LA. April 12, 2023.
22. **Meier, H.C.S.**, Mitchell, C. Food Insecurity and Epigenetic Age Acceleration. FFCWS Working Group oral presentation. Virtual. March 2, 2023.
23. **Meier, H.C.S.**, Bakulski, K., & Aiello, A.E. Metals exposure and cognitive decline in Latino elders: results from the Sacramento Area Latino Study on Aging. Oral presentation at Gerontological Society of America 2022 Annual Meeting. Indianapolis, IN. November 2-6, 2022.
24. **Meier, H.C.S.** Food Insecurity and Epigenetic Age Acceleration in Children. Oral presentation at Interdisciplinary Association for Population Health Science Annual Meeting, Minneapolis, MN. September 20-23, 2022.
25. Wing, J. J., Lynch, E. E. †, Laurent, S. E. ‡, Mitchell, B. C., Richardson, J., & **Meier, H. C.S.*** Structural Racism in Columbus, Ohio Associated With Stroke Prevalence. Poster presentation at the International Stroke Conference. New Orleans, LA. February 9-11, 2022.
26. **Meier, H.C.S.**, Mitchell, C. Crimmins, E., Thyagarajan, B. Fisher, J., Faul, J. Association of GrimAge DNA methylation components & 2-year mortality in the Health and Retirement Study. Poster presentation at the Gerontological Society of America 2021 Annual Meeting. Phoenix, AZ. November 10-14, 2021.
27. Fisher, J., **Meier, H. C. S.**, Faul, J., Mitchell, C., Crimmins, E., & Thyagarajan, B. (2021). Epigenome Wide Associations of Smoking Behavior in the Health and Retirement Study. Poster presentation at the Gerontological Society of America 2021 Annual Meeting. Phoenix, AZ. November 10-14, 2021.
28. **Meier, H.C.S.**, Mitchell, C. Crimmins, E., Thyagarajan, B. Fisher, J., Faul, J. Association of GrimAge DNA methylation components & 2-year mortality in the Health and Retirement Study. Oral presentation at Integrating Genetics and the Social Sciences 12th Annual Conference. Boulder, CO. October 29, 2021. Hybrid event due to COVID-19.
29. **Meier, H.C.S.** The legacy of historic redlining and health: using the Mapping Inequality HOLC digital archive for population health research. Oral presentation at the Interdisciplinary Association for Population Health Science Annual Meeting. Baltimore, MD. October 21, 2021. Virtual event due to COVID-19.
30. Chesley, N., Laurent, S.E.‡, & **H.C.S. Meier.** Using Crowdsourcing Platforms in Study Designs during the COVID-19 Pandemic: Lessons from a Mechanical Turk Survey Experiment on Mask Wearing. Population Association of America 2021 Annual Meeting. May 2021.
31. **Meier, H.C.S.** Redlining & Neighborhood Health. Ignite Presentation at Data You Can Use’s Annual Data Day. October 21, 2020.
32. **Meier, H.C.S.**, Manansala, R., Aiello. A.E., Malosh, R.M. Disparities in individual and neighborhood level education are associated with the risk of acute respiratory illness in the Detroit Neighborhood Health Study. Poster presentation at the Annual Meeting of the Society for Epidemiologic Research. Boston, MA. December 15-18, 2020.
33. Lynch, E.E.†, **Meier, H.C.S.** Investigating structural racism in Milwaukee: The legacy of historic disinvestment on current lending and health. Oral presentation at the Interdisciplinary Association for Population Health Science Annual Meeting. Minneapolis, MN. September 30-October 2, 2020. Event moved online due to COVID-19.
34. Laurent, S.E.†, **Meier, H.C.S.** Racial disparities in the association between neighborhood socioeconomic index and blood lead levels in Milwaukee County, Wisconsin Children, 2014-2016. Poster presentation at the

Interdisciplinary Association for Population Health Science Annual Meeting. Minneapolis, MN. September 30-October 2, 2020. Event moved online due to COVID-19.

35. Lynch, E.E.[†], **Meier, H.C.S.** The intersectional effect of poverty, home ownership, and racial/ethnic composition on average childhood blood lead levels in Milwaukee County neighborhoods. Poster presentation at the Annual Meeting of the Society for Epidemiologic Research. Boston, MA. December 15-18, 2020.
36. Laurent, S.E.[†], **Meier, H.C.S.** Association between Neighborhood Poverty and Blood Lead Level Severity in Milwaukee County, Wisconsin Children, 2014-2016. Poster presentation at the Annual Meeting of the Society for Epidemiologic Research. Boston, MA. December 15-18, 2020.
37. Fink, J.T., Laestadius, L.I., Jarman, C.G., Chopp, S.A. and **Meier, H.C.S.** JUUL/VAPE in Adolescents: A Focus Group Study of Usage and Perceptions. Poster presentation at American Public Health Association Annual Meeting, Philadelphia, PA, November 2-6, 2019.
38. Lynch, E.E.[†] and **Meier, H.C.S.** Neighborhood Child Blood Lead Levels Differ by Home Ownership, Poverty, and Racial/Ethnic Composition in Milwaukee County. Poster presentation Data You Can Use Data Day 2019, Milwaukee, WI, October 22, 2019.
39. Woo, J.M.P.[‡], **Meier, H.C.S.**, Sandler, D.P. Early Life Traumatic Experiences and Incident Breast Cancer Risk among Adult Women. National Institute of Environmental Health Sciences 2019 Summer Internship Program Poster Session, Research Triangle Park, NC, July 26, 2019. *Third Place*.
40. McAtee, C.[†], Tynczuk, N.[†], Verpraskas, P., Conklin, L., Simanek, A.M., & **Meier, H.C.S.** Opioid Use in Wauwatosa, Wisconsin: A spatial analysis of opioid-related issues and demographic determinants. Poster presentation at Wisconsin Public Health Association Annual Public Health Conference, Wisconsin Dells, WI, May 21-23, 2019.
41. **Meier, H.C.S.**, Hussein, M., Needham, B., Barber, S., Epel, E., Lin, J., Seeman, T. and Diez Roux, A. Cellular Response to Chronic Psychosocial Stress: Ten-year Longitudinal Changes in Telomere Length in the Multi-Ethnic Study of Atherosclerosis. Poster presentation at the 51st Annual Society for Epidemiologic Researchers Meeting, Baltimore, MD, June 19-22, 2018.
42. Simanek, A.M., **Meier, H.C.S.**, D' Alioso, A.A., Sandler, D.P. Lifecourse Subjective and Objective Socioeconomic Disadvantage in Childhood and Incident Depression in Adulthood Among Middle- to Older-Aged Women in the Sister Study. Poster presentation at the 4th Annual Meeting of the Interdisciplinary Association of Population Health Science. Washington, DC. October 3rd-5th.
43. Simanek, A.M., **Meier, H.C.S.**, D' Alioso, A.A., Sandler, D.P. Lifecourse Subjective and Objective Socioeconomic Disadvantage in Childhood and Incident Depression in Adulthood Among Middle- to Older-Aged Women in the Sister Study. Poster presentation at the 51st Annual Meeting of the Society for Epidemiologic Research. Baltimore, MD. June 19th-22nd.
44. **Meier, H.C.S.**, Haan, M.H., Mendes de Leon, C.F., Simanek, A.M., Dowd, J.B., and Aiello, A.E. Time Since US Immigration and Immune Response to Persistent Infection in Later Life. Poster presentation at the 50th Annual Society for Epidemiologic Researchers Meeting, Seattle, WA, June 20-23, 2017.
45. **Meier, H.C.S.**, Haan, M.H., Mendes de Leon, C.F., Simanek, A.M., Dowd, J.B., and Aiello, A.E. Nativity, Acculturation and Immune Response to Persistent Infections in Elderly Latinos. Poster presentation at the Population Association of America Annual Meeting, Chicago, IL, April 27-29, 2017.
46. Simonsick, E.M., **Meier, H.C.S.**, Chiles, N.S., Studenski, S.A., Ferrucci, L. Core Body Temperature as a Biomarker of Energetic Efficiency and Mobility Performance. Presentation at The Gerontological Society of America's 69th Annual Scientific Meeting, New Orleans, LA, November 16-20, 2016.
47. **Meier, H.C.S.**, Sandler, D.P., Simonsick, E.M. and Parks, C.G. Association between vitamin D deficiency and antinuclear antibodies in middle age and older U.S. adults, NHANES 2001-2004. Poster presentation at the 2016 Epidemiology Congress of the Americas, Miami, FL, June 21-24, 2016.
48. **Meier, H.C.S.** Aging and Autoimmunity in the Baltimore Longitudinal Study of Aging. Oral presentation at the Translational Gerontology Branch Annual Retreat, National Institute on Aging, Baltimore, MD, August, 31, 2015.
49. **Meier, H.C.S.**, Haan, M.H., Mendes de Leon, C.F., Simanek, A.M., Dowd, J.B., and Aiello, A.E. Life Course Socioeconomic Position and Immune Response to Persistent Infections in Elderly Latinos. Poster presentation at the 48th Annual Society for Epidemiologic Researchers Meeting, Denver, CO, June 17-19, 2015.
50. **Meier, H.C.S.** and Aiello, A.E. Helicobacter pylori exposure and the risk of nephropathy in the U.S. Population, NHANES 1999-2000. Poster presentation at the 46th Annual Society for Epidemiologic Research Meeting, Boston, MA, June 18-21, 2013.

51. Simanek, A.M., **Meier, H.C.S.**, Dowd, J.B. and Aiello, A.E., Longitudinal Association Between Immune Response to Cytomegalovirus and Depression/Depressive Symptoms. Talk presented at the 4th International Workshop on “CMV & Immunosenescence”, Parma, Italy, March 25-27, 2013.
52. Simanek, A.M., Dowd, J.B., **Meier, H.C.S.** and Aiello, A.E. Longitudinal Associations Between Immune Response Against Persistent Pathogens and Adverse Cognitive Function, Mental Health and Immunological Aging. Talk presented at the Annual Stanley Medical Research Institute Conference, Baltimore, MD, December 10-12, 2012.
53. **Meier, H.C.S.** and Aiello, A.E. The Pathogen Study: Preliminary Analyses. Rush Medical Center Religious Orders Study, Memory and Aging Project, and Minority and Aging Research Study Annual Investigators Meeting, Chicago, IL, June 14-15, 2012.

RESEARCH FUNDING

Ongoing

R01 AG080401

01/01/23-12/31/27

Role: Principal Investigator

NIH/NIA

The impact of redlining and place-based systemic racism on health inequalities at mid-life

This study will produce a national database of historical redlining, historic and current environmental hazards, housing investment, gentrification, and longitudinal neighborhood demographics and socioeconomics. We will then examine structural racism as a risk factor for inequalities in neighborhood ‘access and exposure’ as well as disparities in morbidity and mortality risk in the Health and Retirement Study.

U01 HD110063 (Mitchell, Meier, Monk, MPIs)

09/15/22-04/01/27

Role: Multiple Principal Investigator

NIH/NICHD

The longitudinal impact of the COVID-19 pandemic and related multi-level mitigation and contextual factors on health and socioeconomic outcomes of individuals and families from a vulnerable population

This study will examine the short- and long-term health, social and economic effects of the COVID-19 pandemic on an underserved and vulnerable population of young adults who have been followed since birth along with their primary caregivers who are entering middle age. Moreover, planned linkages to multilevel COVID-19 related health, social, and economic measures will be incorporated to identify how temporal and geographic variations contribute to outcomes of the two-generation sample.

U01 AG009740 (Weir, Langa MPIs)

05/2024-12/2029

Role: Special Scientist/Collaborator

NIH/NIA

Health and Retirement Study: Yrs 35-40

As a special scientist/collaborator with effort on this grant, I assist co-I Jessica Faul in overseeing and managing the biospecimen collection and data production portion of the Health and Retirement Study.

R01 MH130158 (Hyde, Mitchell, Monk, Neblett, MPI)

04/01/22-03/31/27

Role: Co-Investigator

NIH/NIMH

Structural Racism and Black American Mental Health: Neurophysiological Mechanisms and Sociocultural Processes Promoting Resilience During the Transition to Adulthood

The goal of this project is to elucidate the links between specific neighborhood and societal indicators of structural racism and subsequent mental health, as well as stress-related neurophysiological mechanisms and sociocultural buffers that account for and influence this link.

R01 AG066691 (Crimmins, Faul, MPI)

09/2020-04/2025

Role: Assistant Research Scientist/Research Assistant Professor

NIH/NIA

Social Circumstances and Epigenomics Promoting Health in Three Countries

This project will support the analysis of existing social and epigenetic data for three countries and the development of longitudinal epigenetic data for the three countries in order to answer basic questions about how life circumstances in both childhood and adulthood affect epigenetic change and how that change in turn is associated with health after age 50.

R01 HD076592 (Notterman, PI)

05/01/19 -04/30/24

Role: Assistant Research Scientist

NIH/NICHD

Biological and social mediators of child wellbeing among ethnic groups in Fragile Families

For this renewal project we plan to develop a portfolio of relatively new measures based on data acquired during the current funding period (multiple polygenetic scores, including several that exploit gene expression or experimental data to enhance the predictive power for particular phenotypes).

R01 MD011716 (Mitchell, PI)

8/16/17-5/31/24

Role: Assistant Research Scientist

Epigenetic Mediation of Adverse Social Context on Stress Response, Socioemotional Development, and Health in a Population-based Study of Minority and Low SES Children and Adolescents

Building on an existing representative study of children, this proposal will: 1) assemble epigenome-wide data on 2,000 children at two points in time, 2) describe methylation patterns in 3 race/ethnic groups and across SES levels, and 3) explicate epigenetic associations with social adversity, biological processes, and socioemotional development. 2019 PECASE winner.

Completed

U01 AG009740 (Weir, PI)

9/15/22-12/31/24

Role: Collaborator

NIH/NIA

HRS Yrs 29-34: Heavy Metal Exposures Supplement

This supplemental proposal aims to add to the rich HRS data on longitudinal contextual and socioeconomic risk factors for AD/ADRD by directly measuring blood heavy metals concentrations in 15,000 participants, and share the data with the research community using established HRS data-sharing systems to enable examination of associations with incident AD/ADRD.

P30 AG012846 (Freedman, PI)

07/01/22-06/30/23

Role: Pilot Award Principal Investigator

\$30,000

Overall Center Title: Michigan Center for the Demography of Aging

Pilot Title: Immune Aging Phenotypes and COVID-19 risk in the Health and Retirement Study

P30 AG059300 (Arjouch, Antonucci, Zahodne, MPI)

07/01/21-06/30/23

Role: Pilot Award Principal Investigator

\$30,000

Overall Center Title: Michigan Center for Contextual Factors in Alzheimer's Disease (MCCFAD)

Pilot Title: Metals exposure and risk of cognitive decline and ADRD in the Sacramento Area Latino Study on Aging

R01 AG060110 (Crimmins, PI)

07/01/18 - 06/30/23

Role: Assistant Research Scientist

Biological Underpinnings of Socioeconomic Differentials in Health and Mortality

The goal of this project is to use a unique new data resource from the Health and Retirement Study (HRS) to elucidate the biological pathways and networks through which life course social disadvantage influences subsequent morbidity and mortality. This work investigates how predisposing factors (methylation, gene expression, mitochondrial exhaustion, and clinical biological age) and precipitating factors (socioeconomic status, psychosocial stressors, and neighborhood) together influence age-related health conditions (age-related morbidity and mortality).

RF1 AG055654 (Faul & Galama, MPIs)

09/15/17 - 11/30/22

Role: Assistant Research Scientist**Identifying modifiable aspects of gene-by-environment interplay in later-life cognitive decline**

This project aims to use significant and replicated results from existing genome-wide association studies to develop novel gene-based (burden scores) and genome-wide (polygenic scores) methods to better capture genetic risk and to examine whether SES and work characteristics moderate the effect of genes on the development of dementia and cognitive decline in later life.

Shaw Scientist Award**7/1/2019-6/30/2021****Role: Principal Investigator****Greater Milwaukee Foundation**

The Shaw Scientist Awards program began in 1982 thanks to a \$4.3 million bequest from Dorothy Shaw, widow of James Shaw, a prominent Milwaukee attorney. In addition to \$2 million in special grants, the Shaw's fund has awarded about \$14 million in grants to 77 scientists from UW–Madison and UW–Milwaukee. An advisory panel including scientists representing major U.S. research institutions recommends the winners. The award is \$200,000 seed funding to support innovative research approaches and the career development of young investigators. I was the 14th recipient from UW-Milwaukee since 1982.

90ADPI0038-01-00**9/30/2019-9/29/2020****Role: Principal Investigator UWM Subcontract, Lead Evaluator Waukesha Site****ACL/DHHS****Expanding Dementia Care Specialist Services in Wisconsin**

The Wisconsin Department of Health Services received an American Community Living grant to support a three-year project to expand access to the Dementia Care Specialist Program to populations not currently being served. As the PI of the University of Wisconsin – Milwaukee subcontract, Dr. Meier leads all efforts, including evaluation design, data collection, data analysis, interpretation of findings, to determine if proposed intervention achieved its anticipated outcomes at the Waukesha, WI location serving Latino elders.

R21 MD012345 (PI: Simanek)**9/6/2018-4/30/2020****Role: Co-Investigator****Socioeconomic Disadvantage, Adverse Birth Outcomes and Programming of Inflammation**

We examine whether maternal socioeconomic disadvantage at both the individual- and neighborhood-level experienced during pregnancy is associated with a pro-inflammatory phenotype in children at birth, assess the role that adverse birth outcomes including preterm or small for gestational age birth play in explaining this association and assess whether these relationships differ by offspring sex.

National Occupational Research Agenda (NORA) Award (Shoeb, PI)**2020-2023****Role: Invited Expert Collaborator****CDC/NIOSH****Crosstalk between DNA repair mechanisms and welding fumes-induced genotoxicity**

Intramural research award to Dr. Mohammad Shoeb in the Health Effects Laboratory Division/Pathology and Physiology Research Branch, National Institute for Occupational Safety and Health.

TEACHING*Delivered Courses*

Fall 2022	<i>Guest Lecturer</i> , Introduction to Epidemiology, Carroll University
Summer 2022	<i>Instructor</i> , EPID591 Social Epidemiology: From Frameworks to Policy, University of Michigan School of Public Health
Fall 2019, 2020	<i>Instructor</i> , PH201 Public Health from Cells to Society I, University of Wisconsin-Milwaukee Joseph J. Zilber School of Public Health
Fall 2018, 2017	<i>Co-Instructor</i> , PH704 Principles and Methods of Epidemiology, University of Wisconsin-Milwaukee Joseph J. Zilber School of Public Health

- Spring 2020-2017 *Instructor*, PH761 Epidemiology Field Methods, University of Wisconsin-Milwaukee Joseph J. Zilber School of Public Health
- Fall 2018, 2017 *Guest Lecturer*, University of Wisconsin-Milwaukee Joseph J. Zilber School of Public Health, PH756 Social Epidemiology, Topics: Life Course Epidemiology, Mediation Analysis
Guest Lecturer, University of Wisconsin-Milwaukee Joseph J. Zilber School of Public Health, PH801 Seminar in Public Health Research, Topic: Social and Environmental Determinants of Immune Function in Aging Populations
- Fall 2016 *Guest Lecturer*, University of Wisconsin-Milwaukee Joseph J. Zilber School of Public Health, PH756 Social Epidemiology, Topic: Life Course Epidemiology
Guest Lecturer, University of Wisconsin-Milwaukee Joseph J. Zilber School of Public Health, PH801 Seminar in Public Health Research, Topic: Social and Environmental Determinants of Immune Function in Aging Populations
- Fall 2015 *Guest Lecturer*, University of North Carolina Gillings School of Global Public Health, EPID 826 Social Epidemiology, Topic: Life Course Epidemiology
- Winter 2014 *Graduate Student Instructor*, University of Michigan School of Public Health, EPID 503 Strategies and Uses of Epidemiology
- Fall 2013 *Guest Lecturer*, University of Michigan School of Public Health, EPID 514 Social Epidemiology, Topic: Life Course Epidemiology

Developed Courses – Graduate

PH806 Advanced Epidemiology

PH864 Research Ethics in Epidemiology and Public Health

PH904 Survey of Analytic Methods for Epidemiology

Developed Courses – Undergraduate

PH355 Public Health Research Methods I

PH455 Public Health Research Methods II

MENTORSHIP

Doctoral Students - Dissertation Committee Chair

2020-2023 Sarah E. Laurent, MPH, Joseph J. Zilber School of Public Health, University of Wisconsin - Milwaukee (co-Chair)
 Dissertation Title: Embodiment and Historic Place-Based Factors: Redlining and Stress in Adolescents (Defended December 11, 2023)

2018-2020 Jennifer M.P. Woo, MPH, PhD. Joseph J. Zilber School of Public Health, University of Wisconsin - Milwaukee
 Dissertation Title: Life Course Health Effects of Early Life Trauma (Defended April 17, 2020)

Doctoral Students – Dissertation Committee Member

2021-current Meng Xiong, MPH, Joseph J. Zilber School of Public Health, University of Wisconsin - Milwaukee
 Dissertation Title: Longitudinal analysis of parental, peer, and neighborhood support on sexual activity and sexual risk behaviors and assessments of differences by race/ethnicity and gender among adolescents in The National Longitudinal Study of Adolescent to Adult Health

2024-2025 Gabriela Suarez, Developmental Psychology, University of Michigan
 Dissertation Title: From Streets to Synapses: Exploring the Impact of the Neighborhood Environment on the Developing Brain

2024-current Jasmine Cooper, Developmental Psychology, University of Michigan
Dissertation Title: Environmental Racism on the Brain: The Mediating and Moderating Factors of Environmental Risk and Brain Aging

University of Michigan

Postdoctoral Fellows

2023-current Liang Chen, Ph.D.
2024-2025 Sarah E. Laurent, Ph.D., M.P.H.

Graduate Students

2023-current Olivia Varney-Cheng, M.S.W., Ph.D. candidate
2023-current Deaweh Benson, Ph.D. candidate

Undergraduate Students

2023-2024 Isabela Palomba, BS
2022-2023 Thomas Karadimas, BS

University of Richmond

Undergraduate Students

2023-current Craig Caudill

Joseph J. Zilber School of Public Health, University of Wisconsin – Milwaukee: Epidemiology

Master of Public Health Students – Academic and Capstone Advisor

2019-2020 Kimber Meyer
Kayala Bonack, MPH
Sarah Reed, MPH
Laura Rollin, MPH
2019-2020 Emily Lynch, MPH
2018-2020 Andrea Lengyel, MPH
Katherine Lund, MPH
2017-2018 Natasha Tynczuk, MPH
2016-2018 Hannah Onderko, MPH
Christina Khouri, MPH
Chelsea Moore, MPH
2016-2017 Rachel Lecher, MPH

COMMITTEES, ACTIVITIES, & SERVICE (since 2011)

2023-2025 Seminar Committee Member, Survey Research Center, ISR, University of Michigan
2024 Institute for Social Research 75th Anniversary Symposium Health Inequities Session moderator
2022-2023 Mission Statement Committee Member, Survey Research Center, ISR, University of Michigan
2018-2020 Faculty Advisor, Public Health Graduate Student Assembly, Joseph J. Zilber School of Public Health, UWM
2018-2020 Undergraduate Program Committee, Joseph J. Zilber School of Public Health, UWM
2018-2020 Spanish for Health Professionals Certificate Advisory Committee, University of Wisconsin-Milwaukee
2016-2020 Member, Latino Aging Consortium, United Community Center, Milwaukee, WI
2016-2019 Publications Committee Ad Hoc Member, Society for Epidemiologic Research
2016-2018 MPH Curriculum Committee, Joseph J. Zilber School of Public Health, UWM
2015-2016 NIEHS Trainees Assembly (NTA) Epidemiology Branch Representative
2015-2016 Reproductive Lunch Seminar Coordinator, Epidemiology Branch, NIEHS

2015-2016 Space Committee Member, Epidemiology Branch, NIEHS
2013-2015 Association for Women in Science, University of Michigan
2013-2015 Mentor for Pre-Public Health Association, Women in Health Leadership, University of Michigan
2011-2015 Epidemiology Doctoral Student Organization, University of Michigan School of Public Health

PROFESSIONAL SERVICE

2024 NIH NINR BRIDGE-To-Care RFA Study Section Reviewer
2024 NIH PAR 22-233 Time-Sensitive Study Section Reviewer
2023 NIH NIA/NIEHS R01 Telomere Biology Study Section Reviewer
2023 Interdisciplinary Association for Population Health Studies Annual Poster Judge
2020-2024 Interdisciplinary Association for Population Health Studies Annual Meeting Concurrent Session Chair
2019 NIH NIA/NIEHS U-24 and U-01 Study Section Reviewer, Telomeres as Sentinels of Environmental Exposures, Psychosocial Stress and Disease Susceptibility

PROFESSIONAL MEMBERSHIP

2018-current Interdisciplinary Association for Population Health Studies
2012-current Society for Epidemiologic Research
2016-current Population Association of America
2021-current Gerontological Society of America

ADHOC PEER REVIEWER

Proceedings of the National Academy of Sciences (PNAS), Environmental Health Perspectives, American Journal of Epidemiology, Journal of the American Heart Association, Social Science & Medicine – Population Health, Journal of Urban Health, PLOS Global Public Health, Health & Place, Epidemiology & Infection, Journal of Gerontology: Social Sciences, Psychoneuroendocrinology, Fertility and Sterility, Stress, Immunity and Ageing, Psychosomatic Medicine, PLOS One, PLOS Global Public Health, Journal of Urban Health, National Institute of Environmental Health Sciences Internal Manuscript Review, Society for Epidemiologic Research, Annual Meeting Abstract Reviewer

CERTIFICATIONS

CITI Program IRB-Biomedical and Social & Behavioral Combined Researchers (exp. 6/1/2027)
OESH Handling and Shipping of Hazardous Materials Infectious Substances
OESH Laboratory Safety and Bloodborne Pathogen Training