

# Jennifer A. Smith, PhD, MPH

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## EDUCATION

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2011 **Ph.D. Epidemiological Sciences**  
University of Michigan  
Dissertation Title: “Genetic Architecture of Leukoaraiosis and Cognitive Function”  
(with Dr. Sharon L.R. Kardia)

2009 **M.A. Statistics**  
University of Michigan

2005 **M.P.H. Health Management and Policy**  
University of Michigan  
Interdepartmental Concentration in Public Health Genetics

2001 **B.S. Biological Sciences**  
Cornell University  
Concentration in Genetics

## ACADEMIC APPOINTMENTS

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### **Department of Epidemiology, School of Public Health, University of Michigan**

2020- Associate Professor  
2016-2020 Assistant Professor  
2015-2016 Research Assistant Professor  
2012-2015 Assistant Research Scientist  
2011-2012 Research Area Specialist Lead  
2004-2010 Graduate Student Research Assistant / Instructor

### **Survey Research Center, Institute for Social Research, University of Michigan**

2020- Research Associate Professor  
2016-2020 Research Assistant Professor

## CENTER AND PROGRAM AFFILIATIONS

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### *Current Affiliations*

- 2022- **Member**, Michigan Genomics Initiative Access Committee  
University of Michigan AI and Digital Health Innovations (*previously UM Precision Health*), Ann Arbor, MI
- 2021- **Assistant Director**, Cohort Development Workgroup  
University of Michigan AI and Digital Health Innovations (*previously UM Precision Health*), Ann Arbor, MI
- 2019- **Director**, Certificate Program in Public Health Genetics (CPHG)  
School of Public Health, University of Michigan, Ann Arbor, MI
- 2018- **Core Faculty**, Center for Social Epidemiology and Population Health (CSEPH)  
School of Public Health, University of Michigan, Ann Arbor, MI
- 2017- **Executive Committee Member** (2021-Present) and **Faculty Affiliate** (2017-2021),  
Genome Sciences Training Program (T32)  
School of Public Health, University of Michigan, Ann Arbor, MI
- 2016- **Collaborator**, BioSocial Methods Collaborative  
Institute for Social Research, University of Michigan, Ann Arbor, MI
- 2015- **Investigator**, TOPMed: Trans-Omics for Precision Medicine Program  
National Heart, Lung and Blood Institute, National Institutes of Health
- 2015- **Associated Faculty Member**, Center for Midlife Science  
School of Public Health, University of Michigan, Ann Arbor, MI
- 2014- **Affiliated Scientist**, Michigan Center on the Demography of Aging (MiCDA)  
Institute for Social Research, University of Michigan, Ann Arbor, MI
- 2014- **Faculty Member**, Population, Neurodevelopment, and Genetics (PNG) Program  
Institute for Social Research, University of Michigan, Ann Arbor, MI

### *Previous Affiliations*

- 2016-2018 **Faculty Affiliate**, Center for Social Epidemiology and Population Health (CSEPH)  
School of Public Health, University of Michigan, Ann Arbor, MI
- 2012-2019 **Associated Faculty Member**, Certificate Program in Public Health Genetics (CPHG)  
School of Public Health, University of Michigan, Ann Arbor, MI
- 2012-2018 **Steering Committee Member**, Center for Integrative Approaches to Health Disparities  
School of Public Health, University of Michigan, Ann Arbor, MI

## RESEARCH GRANTS

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### *Current Grants*

2 R01 HG009124                      Zhou (PI)    05/01/23 – 02/28/27  
NIH/NHGRI                              \$350,000 (Annual Direct Costs)  
New computational tools for advanced analytics in genome-wide association studies  
*Role: Co-Investigator*

R01 AG067506 Antonucci (PI) 06/01/20 – 03/31/26 (NCE)  
NIH/NIA \$1,000,000 (Annual Direct Costs)  
Racial/ethnic disparities in ADRD Risk: The impact of social relations  
*Role: Co-Investigator*

U01 AG064948 Lee/Kardia (MPIs) 09/15/19 – 08/31/25 (NCE)  
NIH/NIA \$2,703,152 (Annual Direct Costs)  
Harmonized diagnostic assessment of dementia (DAD) for Longitudinal Aging Study of India (LASI) – Genomic study  
*Role: Co-Investigator*

R01 AG057510-S2 Ajrouch (PI) 09/01/19 – 05/31/26 (NCE)  
NIH/NIA \$249,100 (Annual Direct Costs)  
Alzheimer’s Disease risk and ethnic factors: The case of Arab Americans – Administrative Supplement for saliva collection  
*Role: Co-Investigator*

U01 AG009740 Weir (PI) 05/31/24 – 12/31/29  
NIH/NIA \$25,560,261 (Annual Direct Costs)  
Health and Retirement Study Years 35-40  
*Role: Research Staff*

R01 HL155569 Liu (PI) 09/01/21 – 06/30/25  
NIH/NHLBI \$350,000 (Annual Direct Costs)  
Mitochondrial DNA, Nuclear DNA Methylation, and Cardiometabolic Disease Traits  
*Role: Consultant*

R01 AA028263 Liu (PI) 07/01/21 – 04/30/26  
NIH/NIAAA \$350,000 (Annual Direct Costs)  
Trans-omic Analysis of Alcohol Consumption and its Relation to Cardiovascular Disease  
*Role: Consultant*

**Previous Grants**

R01 MD011721 Needham/Rehkopf (MPIs) 08/16/17 – 05/31/24 (NCE)  
NIH/NIMHD \$500,000 (Annual Direct Costs)  
Race/Ethnicity, DNA Methylation, and Disparities in Cardiovascular Mortality: NHANES 1999-2002  
*Role: Co-Investigator*

U01 AG009740 Weir (PI) 01/01/18 – 12/31/23  
NIH/NIA \$17,306,462 (Annual Direct Costs)  
Health and Retirement Study Years 29-34  
*Role: Research Staff*

R01 AA026687 Birditt (PI) 09/20/19 – 08/31/23 (NCE)  
NIH/NIAAA \$411,863 (Annual Total Costs)  
Alcohol consumption and cardiovascular health among older couples: The roles of genetics and marital quality  
*Role: Co-Investigator*

R01 AG061118 Liu (PI) 08/01/19 – 04/30/23  
NIH/NIA \$267,723 (Total Costs)  
Marriage, cognitive trajectories, and ADRD risk in late life  
*Role: Consultant*

R01 HL141291 Morrison/Wolberg (MPIs) 02/01/19 – 01/31/23  
NIH/NHLBI \$12,000 (Total Direct Costs for UM Subcontract)  
Using genomics and functional biology to understand fibrinogen and its effect on thrombotic and atherosclerotic outcomes  
*Role: Principal Investigator of UM Subcontract*

R01 HL141292 Smith (PI) 04/01/18 – 01/31/23 (NCE)  
NIH/NHLBI \$1,888,652 (Total Direct Costs)  
A Social Epigenomic Approach to Health Disparities in Cardiovascular Risk Factors  
*Role: Principal Investigator*

R25 AG053227 Faul/Mitchell/Kardia (MPIs) 09/15/16 – 04/30/22 (NCE)  
NIH/NIA \$125,000 (Annual Direct Costs)  
Genomic Analysis for Social-Behavioral Scientists  
*Role: Co-Investigator*

U01 AG017719 Harlow (PI) 09/15/16 – 05/31/22 (NCE)  
NIH/NIA \$914,234 (Annual Direct Costs)  
SWAN Repository IV  
*Role: Co-Investigator*

K99/R00 AG056599 Schmitz (PI) 09/01/17 – 08/31/22  
NIH/NIA \$245,000 (Total Direct Costs)  
Life Course Determinants of Epigenetic Age Acceleration and Subsequent Dementia  
*Role: Principal Investigator of UM Subcontract*

R01 AG055406 Ware/Bakulski (MPIs) 09/15/17 – 05/31/21  
NIH/NIA \$450,000 (Annual Direct Costs)  
Characterizing Disparities in Late-Onset Alzheimer’s Disease Risk through Polygenic Risk and Epidemiologic Factors in the Health and Retirement Study  
*Role: Co-Investigator*

R01 HL133221 Smith (PI) 07/01/16 – 04/30/21  
NIH/NHLBI \$1,636,482 (Total Direct Costs)  
Epigenetics of Arteriosclerosis in African American Hypertensive Sibships  
*Role: Principal Investigator*

MCubed 3.0 Project Zhao/Smith/Sen (MPIs) 03/14/19 – 12/30/20  
University of Michigan \$60,000 (Total Direct Costs)  
Epigenetic Signatures of Stress and Mental Health  
*Role: Principal Investigator*

Pilot Grant Zhou (PI) 01/01/19 – 12/31/19  
Michigan Institute for Clinical and Health Research (MICHR), \$15,000 (Direct Costs)  
Statistical methods for integrating functional annotations to detect differentially methylated regions using summary statistics in translational epigenetic studies  
*Role: Co-Investigator*

R01 HL118305 Rao (PI) 12/01/13 – 11/30/19  
NIH/NHLBI \$2,061,405 (Annual Direct Costs)  
Multi-Ethnic Study of Gene-Lifestyle Interactions in Cardiovascular Traits  
*Role: Co-Investigator*

R01 HL119443 Kardia (PI) 09/01/14 – 08/31/19  
NIH/NHLBI \$700,000 (Annual Direct Costs)

Genetic Mechanisms of Arteriosclerosis in Hypertensive Sibships

*Role: Co-Investigator*

R01 AG051125-03S2 Lee (PI) 09/15/17 – 05/31/19  
NIH/NIA \$115,089 (Total Direct Costs)

Harmonized Diagnostic Assessment of Dementia (DAD) for Longitudinal Aging Study of India (LASI)

*Role: Co-Investigator*

P60 MD002249 Mendes de Leon/Diez Roux (PIs) 09/01/12 – 08/31/17  
NIH/NIMHD \$1,238,326 (Annual Direct Costs)

Michigan Center for Integrative Approaches to Health Disparities (CIAHD)

Social and Biologic Predictors of Cardiovascular Risk among African Americans (Diez Roux, R01 PI)

*Role: Co-Investigator and Research Core Principal Investigator*

U01 AG009740 Weir (PI) 01/01/11 – 12/31/17  
NIH/NIA \$13,173,570 (Annual Direct Costs)

Health and Retirement Study Years 23-28

*Role: Research Staff*

MCubed 2.0 Project Richards/Bohnsack/Smith (MPIs) 11/19/15 – 04/29/17  
University of Michigan \$60,000 (Total Direct Costs)

The Madeline Interface

*Role: Principal Investigator*

R03 AG048806 Smith/Faul (MPIs) 09/30/14 – 05/31/17  
NIH/NIA \$200,000 (Total Direct Costs)

Interplay of Genetic & Socioeconomic Predictors of Memory Decline in Older Adults

*Role: Principal Investigator*

R03 AG046389 Kardia (PI) 09/01/13 – 08/31/16  
NIH/NIA \$200,000 (Total Direct Costs)

Genetic and Psychosocial Predictors of Blood Pressure and Body Mass Index

*Role: Co-Investigator*

R01 HL086694 Chakravarti (PI) 08/05/11 – 05/30/14  
NIH/NHLBI

Genome-Wide Association Analysis in Essential Hypertension

*Role: Co-Investigator*

RC4 AG039029 Weir (PI) 09/30/10 – 08/31/14  
NIH/NIA

Expanding a National Resource for Genetic Research in Behavioral and Health Science

*Role: Co-Investigator*

R01 HL101161 Diez Roux/Needham (PIs) 06/15/10 – 3/31/15  
NIH/NHLBI

Stress, Gene-Environment Interaction and Cardiovascular Disease

*Role: Co-Investigator*

RC1 HL100185 Kardia (PI) 09/30/09 – 12/31/12  
NIH/NHLBI

Epigenetic Predictors of Common Chronic Diseases

*Role: Research Area Specialist Lead*

P60 MD002249 Diez Roux (PI) 09/01/07 – 08/31/12



## GUEST LECTURES

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- Winter, 2025 “Eugenics and genetics: Historical and modern perspectives,” *Introduction to Public Health Genetics* (PUHG 7011), University of Cincinnati, OH, and Bahir Dar University, Ethiopia (Virtual)
- Winter, 2025 “Social epigenomics and cardiovascular health,” *Genomic Biology* (MCDB 408), University of Michigan, Ann Arbor, MI
- Winter, 2025 “Genetic associations, gene-by-social factor interactions, and multi-omic analysis of cognitive function and dementia,” *Genomic Biology* (MCDB 408), University of Michigan, Ann Arbor, MI
- Winter 2022 – “Social epigenomics and cardiovascular health,” *Introduction to Precision Health*  
Winter 2025 (PHARM 217), University of Michigan, Ann Arbor, MI
- Winter 2020 – “Embodiment of social factors,” *Social Epidemiology: From Frameworks to Policy*  
Present (EPID 591), University of Michigan, Ann Arbor, MI.  
\*Used yearly on Coursera platform (online MPH program)  
- “Theories of embodiment”  
- “Primer on genetics and epigenetics”  
- “Mechanisms and biomarkers”  
- “Gene-environment interactions”  
- “Implications for practice and policy”
- Fall 2017 – “Replication and reproducibility in epidemiologic studies: Historical perspective,  
Fall 2021 & challenges, and strategies,” *Principals and Methods of Epidemiology* (EPID 601),  
Fall 2023 University of Michigan, Ann Arbor, MI
- Winter 2017 – “Responsible authorship and publications: Peer review,” *Responsible Conduct of*  
Winter 2023 *Research and Scholarship* (EPID 889), University of Michigan, Ann Arbor, MI
- Winter 2016 – “Overview and modern applications of human genetics, genomics, and beyond,”  
Winter 2018 *Molecular Epidemiology* (EPID 582), University of Michigan, Ann Arbor, MI
- Fall 2013 “Epigenetics, gene-by-environment interactions, and social epidemiology,” *Social*  
*Epidemiology* (EPID 514), University of Michigan, Ann Arbor, MI
- Fall 2013, Panelist, “Department of Epidemiology Alumni,” *Doctoral Seminar* (EPID 890),  
Winter 2016 Department of Epidemiology, University of Michigan, Ann Arbor, MI
- Fall 2009 “Internet resources for genetic epidemiology,” *Genomics in Epidemiology* (EPID 516),  
University of Michigan, Ann Arbor, MI
- Fall 2007 “Epidemiology of colorectal cancer,” *Genetics in Public Health* (EPID 515), University  
of Michigan, Ann Arbor, MI
- Fall 2007 “Neuroepidemiology of Autism Spectrum Disorders,” *Neuroepidemiology* (EPID 616),  
University of Michigan, Ann Arbor, MI
- Fall 2007 “Genetic testing in the genomic era: Social and policy implications,” *Genetics in Public*  
*Health* (EPID 515), University of Michigan, Ann Arbor, MI
- Summer 2007, “Genetics in nursing,” *Health Promotion and Risk Reduction for Individuals and*  
2008, 2010 *Families* (Nursing 334), University of Michigan, Ann Arbor, MI

Fall 2006	“Asthma pharmacogenomics,” <i>Genetics in Public Health</i> (EPID 515), University of Michigan, Ann Arbor, MI
Fall 2006	“Newborn screening policies and practices,” <i>Genetics in Public Health</i> (EPID 515), University of Michigan, Ann Arbor, MI

## MENTORSHIP

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### ***International Scholar Exchange Program Mentor***

2019	Belayneh Lulseged, MPH St. Paul's Millennium Medical College, Ethiopia
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### ***Junior Faculty***

2024-	Andrew Brouwer (Epidemiology), Secondary Mentor
2022-	Wei Zhao (Survey Research Center), Secondary Mentor
2021-2024	Helen Meier (Survey Research Center), Secondary Mentor
2020-2022	Wei Zhao (Epidemiology), Primary Mentor

### ***Postdoctoral Fellows***

2024-2025	Christina Hutten (Cardiology)
2021-2023	Farah Ammous (Epidemiology)

### ***Doctoral Dissertation Chair***

2024-	Muhammad Zia ul Haq (Epidemiology)
2023-	Justin Oldham (Epidemiology) <i>Biomarkers of clinically relevant endpoints in progressive pulmonary fibrosis</i>
2021-	Hasan Abu-Amara (Epidemiology) <i>Genetic associations with cognitive function in older South Asians across India</i>
2021-2024	Lauren Opsasnick (Epidemiology) <i>Epigenetic biomarkers of long-term psychosocial stress and their relationships with cardiometabolic risk factors</i>
2021-2024	Lisha Lin (Epidemiology) <i>Epigenetic associations with sociodemographic factors and cardiometabolic profiles across the lifecourse</i>
2020-2024	Yi Zhe (Izzy) Wang (Epidemiology) <i>Genetic and socio-contextual determinants of age-related chronic diseases in multi-ancestry cohorts: From molecular mechanisms to gene-by-environment interactions</i>
2019-2023	Dima Chaar (Epidemiology) <i>Socio-contextual and multi-omic associations with cognition and structural brain measures in older African Americans</i>
2017-2021	Farah Ammous (Epidemiology)

*Effects of DNA methylation on cardiovascular disease, target organ damage, and their risk factors in African Americans*

**Doctoral Dissertation Committee Member**

2025-	Jack Li (Biostatistics)
2024-	Brady Ryan (Biostatistics)
2024-	Aubrey Annis (Biostatistics)
2024-	Ruoyao Shi (Biostatistics)
2023-	Zheng Li (Biostatistics)
2023-	Alicia Dominguez (Biostatistics) <i>Statistical approaches and methods to address the impact of study design, winner's curse, and confounding on the utility of polygenic risk scores</i>
2022-	Kyle Gontjes (Microbiology & Immunology) <i>Carbapenem-resistant Klebsiella pneumoniae non-susceptibility to <math>\beta</math>-lactamase inhibitor combination therapy agents before their market introduction</i>
2022-	Debraj Bose (Biostatistics)
2022	Pedro Orozco del Pino (Biostatistics) <i>Transferability of polygenic risk scores across ancestral populations and data integration methods for improving prediction on small sample studies</i>
2021-2022	Yongwen Zhuang (Biostatistics and Scientific Computing) <i>Statistical methods for genome by phenome analysis using large biobank data</i>
2021-2023	Ketian Yu (Biostatistics) <i>Imputation and fine-mapping in genetic association studies</i>
2021	Zhangchen Zhao (Biostatistics) <i>Genetic association and prediction methods for biobank data</i>
2020-2023	Lulu Shang (Biostatistics) <i>Statistical methods and computational tools for genetics and genomics data</i>
2020-2022	Aleda Leis (Epidemiology) <i>Cardiometabolic risk factors and acute kidney injury</i>
2019-2020	Yanyi Song (Biostatistics) <i>Bayesian shrinkage in high-dimensional mediation analysis</i>
2018-2021	Kayla Getz (Epidemiology) <i>Statin use and head and neck squamous cell carcinoma outcomes</i>
2018-2020	Kristen Kelly (Epidemiology) <i>Using genetic epidemiology to explore etiologic hypotheses of depression</i>
2017-2019	Wenchao Li (Epidemiology) <i>Socioeconomic status, food intake, and metabolic dysregulation in an aging population</i>
2015-2018	Minjung (MJ) Kho (Epidemiology) <i>The genetics of sodium intake and its role in blood pressure variation in multi-ethnic populations</i>

- 2015-2017 Kristen Brown (Epidemiology)  
*Getting “under the skin”: Human social genomics in the Multi-Ethnic Study of Atherosclerosis*
- 2014-2015 Paul Christine (Epidemiology; Medicine)  
*Bridging the gap: biologic, behavioral, and environmental contribution to the development of type 2 diabetes*
- 2014-2015 Min A Jhun (Epidemiology)  
*Gene-by-environment interaction: epidemiologic approaches to understanding mechanisms of cardiovascular disease*
- 2013-2014 Neha Sheth (Epidemiology)  
*Investigation of the relationship of statin medication use, fasting blood glucose levels, and type 2 diabetes mellitus*
- 2012-2013 Erin (Bakshis) Ware (Epidemiology)  
*Genes, the environment, and depressive symptom scores in the Multi-Ethnic Study of Atherosclerosis*
- 2012-2013 Erin Payne (Epidemiology)  
*Genetic studies of salivary cortisol profiles and their influence on chronic disease risk factors*
- 2012 Alicia (Lazarus) Zagel (Epidemiology)  
*Unraveling the role of epigenetics in aging and chronic disease*
- 2012 Chun-Yi (Joyce) Wu (Epidemiology)  
*The genetics of blood pressure and body mass index: the tale of two major risk factors*

***Masters Capstone or Integrated Learning Experience Advisor***

- 2023-2024 Courtney Olson (Global Health Epidemiology)  
*Epigenetic age acceleration and polyepigenetic scores for glucose and insulin are associated with diabetes status in U.S. older adults*
- 2023-2024 Samantha Aprill (Epidemiology)  
*Association between DNA methylation at TOMM40-APOE-APOC1-APOC P1 and cognitive function among older adults in the United States*
- 2022-2023 Meike Stoldt (Epidemiology)  
*DNA methylation at CRP-associated CpG sites may mediate the pathways between educational attainment and cognition: Findings from the Health and Retirement Study*
- 2021-2022 Jenna Kiryakos (Hospital and Molecular Epidemiology)  
*Epigenetic age acceleration and blood lipid levels in the Health and Retirement Study*
- 2021-2022 Xinman Zhang (Epidemiology)  
*Epigenetic associations with blood pressure in European Americans and African Americans from the Health and Retirement Study*
- 2021-2022 Anna Pederson (Epidemiology)  
*Epigenetic age acceleration is associated with diabetes status in a cross-sectional study of older adults*
- 2020-2021 Jonathan Kim (Epidemiology)

*CYP3A5 polymorphism not associated with increased risk of bleeding in patients with atrial fibrillation using rivaroxaban or apixaban*

- 2020-2021 Amir Carter (Epidemiology)  
*Sex-specific and generational effects of tobacco use on epigenetic age acceleration in the Michigan Longitudinal Study*
- 2019-2020 Lisha Lin (Epidemiology)  
*Association between epigenetic age acceleration and cardiovascular disease risk factors in African Americans: Calcium scores and adipose tissue*
- 2019-2020 Camile Molina (Epidemiology)  
*The association between DNA methylation and white matter hyperintensities in an older African American population*
- 2018-2019 Breana Eder (Epidemiology)  
*Association between genetic variation in the FTO gene, age at menopause, and sex steroid hormone use in a multi-ethnic sample of women*
- 2018-2019 Randell Seaton (Epidemiology)  
*The influence of neighborhood disadvantage on blood pressure-associated DNA methylation sites in African Americans*
- 2017-2018 Jeremy Raisky (Epidemiology)  
*Epigenetic age is associated with target organ damage in African Americans*
- 2017-2018 Yu Zhao (Epidemiology)  
*PNPLA3 methylation in circulating leukocytes is associated with hepatic steatosis in African Americans*
- 2016-2017 Jiaxuan Liu (Epidemiology)  
*DNA methylation in the APOE gene region is associated with cognitive function in African Americans*
- 2016-2017 Timothy J. Hillman (Epidemiology)  
*Investigating interaction effects between genetic burden scores and educational attainment on memory performance and decline*
- 2015-2016 Lisa Beacher (Epidemiology)  
*Applying ten-year cardiovascular risk scores to Clalit's patient population in Israel*

***Masters Thesis Committee Member***

- 2023-2024 Soverno Chen (Nutrition)  
*Uncovering evolutionary signatures in GWAS-identified type 2 diabetes SNPs: Reviewing the latest type 2 diabetes loci and assessing natural selection*

**AWARDS**

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- 2012-2014 National Institutes of Health (NIH) Health Disparities Research Loan Repayment Program Award, National Institute of Minority Health and Health Disparities (NIMHD), *"Identifying interactions among social, psychosocial, and genetic factors that influence blood pressure in multi-ethnic epidemiological cohorts"*
- 2009- 2010 Horace Rackham Predoctoral Fellowship

- 2006-2008 Genome Sciences Training Program (Predoctoral Fellowship), National Human Genome Research Institute (NHGRI) Training Grant
- 2005 Horace Rackham Recruitment Fellowship
- 2004 Myron and Isabel Wegman Tuition Scholarship (declined for alternative funding)

## PROFESSIONAL SERVICE

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### *National*

- 2024 Grant reviewer (ad hoc), *Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC) Postdoctoral Career Transition Award to Promote Diversity (K99/R00) Special Emphasis Panel 2025/01 ZHL1 CSR-N (J1) 1*, National Heart, Lung and Blood Institute (NHLBI)
- 2023 Co-Chair, *Fellowship Genomics & Translational Biology*, American Heart Association (AHA)
- 2023 Grant reviewer (ad hoc), *Fertility Status as a Marker for Overall Health Special Emphasis Panel ZRGI EMS-J (55)*, Endocrine and Metabolic Systems (EMS) Review Branch, Center for Scientific Review, National Institutes of Health (NIH)
- 2022 Grant Reviewer (ad hoc), *NINR Initial Review Group for Fellowship (F) and Career Award (K) NRCC 84*, National Institute of Nursing Research (NINR)
- 2022 Site Reviewer, Institute for Public Health Genetics, University of Washington
- 2022 Grant Reviewer (ad hoc), *Multi-Component Application (P01) Special Emphasis Panel ZAG1 ZIJ-D (M5)*, National Institute on Aging (NIA)
- 2021 Grant Reviewer (ad hoc), *Special Emphasis Panel: Understanding and Addressing the Impact of Structural Racism and Discrimination on Minority Health and Health Disparities (R01) ZMD1 KNL (J1)*, National Institute on Minority Health and Health Disparities (NIMHD)
- 2021-2023, 2025 Grant Reviewer (ad hoc), *Loan Repayment Program*, National Institutes of Health (NIH)
- 2021, 2023 Grant Reviewer (ad hoc), *Ed and Ethel Moore Alzheimer's Disease Research Program*, Florida Department of Health (FL DOH)
- 2020 Abstract Reviewer, *Epigenetics and Gene Regulation*, American Society of Human Genetics (ASHG)
- 2020 Grant Reviewer (ad hoc), *Support for Conferences and Scientific Meetings (R13)*, National Institutes of Health (NIH)
- 2018-2019, 2021 Grant Reviewer (Member), *Fellowship Population – Observational Epidemiology (Populations)*, American Heart Association (AHA)
- 2018 Grant Reviewer (Temporary Member), *Clinical and Integrative Cardiovascular Sciences (CICS)*, National Institutes of Health (NIH)
- 2017-2018 Grant Reviewer (ad hoc), *Social Sciences and Population Health Sciences Study Section (SSPS) B*, National Institutes of Health (NIH)

- 2015-2017 Grant Reviewer (Member), *Genomics and Translational Biology – Observational Epidemiology (Populations)*, American Heart Association (AHA)
- 2016-2017 Abstract Reviewer, *Genomics Forum*, American Public Health Association (APHA)
- 2009-2011 Judge for the Preliminary Stage of the *Young Epidemiology Scholars (YES) Competition*, sponsored by the Robert Wood Johnson (RWJ) Foundation and the College Board
- 2008-2009 Secretary, *Student Caucus*, Society for Epidemiologic Research (SER)

### ***International***

- 2024 Grant Reviewer (ad hoc), *Research Council* of KU Leuven, University of Leuven, Belgium
- 2022 Judge, *NEUROHACK: A Competitive International Competition to Promote Brain Health*, Deep Dementia Phenotyping (DEMON) Network, King’s College London, United Kingdom (UK) and University of Southern California (USC), USA
- 2018 Grant Reviewer (ad hoc), *Medical Research Council* (MRC), United Kingdom (UK)

### ***University, School, and Department***

- 2025- Faculty Advisor, *Public Health Genetics Journal Club*, University of Michigan School of Public Health
- 2022- Alternate Member, Institutional Review Board, Health Sciences and Behavioral Sciences (IRB-HSBS), University of Michigan
- 2019-2023 Faculty Advisor, *Sexual and Gender Diversity in Public Health (SGDPH)* student organization, University of Michigan School of Public Health
- 2012-2016, 2019- Chair (2020-2022, 2023-present) and Member (2012-2016, 2019-2020), *Admissions Committee*, University of Michigan Department of Epidemiology
- 2018-2020 Member, *Diversity, Equity and Inclusion (DEI) Committee*, University of Michigan Department of Epidemiology
- 2018-2021 Grant Reviewer, *Precision Health Investigators Award*, University of Michigan
- 2016-2018 Member, *Research Committee*, University of Michigan Department of Epidemiology
- 2016-2017 Chair, *Planning Committee of the 20<sup>th</sup> Anniversary Seminar Series for the Certificate Program in Public Health Genetics*, University of Michigan School of Public Health
- 2008 Epidemiology Representative, *Symposium Planning Committee for the 2008 Doctoral Student Health Research Symposium: Multi-Disciplinary Approaches toward Improving Health*, University of Michigan School of Public Health
- 2006-2009 Doctoral Student Representative, *Curriculum Committee*, University of Michigan Department of Epidemiology
- 2006-2008 Executive Committee Member (2006-2008) and Co-Chair (2007-2008), *School of Public Health Doctoral Students*, University of Michigan School of Public Health

### ***Community***

- 2007-2010 Research/Science Advisor, *Engaging Abilities*, Non-profit Organization, Ann Arbor, Michigan
- 2007-2008 Member, *Stat-Com: Statistics in the Community*, University of Michigan School of Public Health

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## PROFESSIONAL AFFILIATIONS

American Heart Association (*Council on Genomic and Precision Medicine; Council on Epidemiology*)  
American Society of Human Genetics  
International Genetic Epidemiology Society  
Society for Epidemiologic Research  
American Public Health Association (*Epidemiology; Aging and Public Health; Genomics Forum*)  
Population Association of America  
Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment

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## EDITORIAL SERVICE

- 2019- Associate Editor, Genomic Epidemiology Section, *BMC Medical Genomics*
- 2016-2017 Guest Editor, *International Journal of Environmental Research and Public Health* special issue, "Gene-Environment Interactions and Disease."

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## AD-HOC SCIENTIFIC JOURNAL REVIEW

*Age and Ageing; Ageing Research Reviews; American Journal of Alzheimer's Disease and Other Dementias; American Journal of Preventive Medicine; Annals of Human Genetics; Biological Psychiatry; BMC Genetics; BMC Genomics; BMC Medical Genetics; BMC Medical Genomics; Brain, Behavior, and Immunity; Brain Disorders and Therapy; Cardiovascular Diabetology; Circulation: Cardiovascular Genetics; Cities & Health; Clinical Epigenetics; Epigenomics; European Journal of Neuroscience; Frontiers in Aging Neuroscience; Frontiers in Genetics; Human Genetics and Genomics Advances, International Journal of Environmental Research and Public Health; International Journal of Molecular Sciences; iScience; Journal of Mental Health and Clinical Psychology; Journal of Urban Health; Journals of Gerontology: Medical Sciences; The Lancet; Neurology; Neuroepidemiology; The Pharmacogenomics Journal; PLoS One; Rubriq (peer review service); Science Advances, Scientific Reports (NPG); Translational Epigenetics (book series)*

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## INVITED TALKS

### *External to University of Michigan*

- Oct. 9, 2024 "Social and psychosocial influences on the epigenome and their associations with age-related diseases," Public Health Sciences Department Seminar Series, University of Chicago, Chicago, IL
- Sep. 9, 2024 "Update on Alzheimer's disease genomics in the Longitudinal Aging Study in India – Harmonized Diagnostic Assessment of Dementia (LASI-DAD)," Annual LASI-DAD Investigator Meeting, Rockville, MD

- July 27, 2024 “Harmonized Diagnostic Assessment of Dementia for the Longitudinal Aging Study in India (LASI-DAD): Current progress and future plans,” Alzheimer’s Disease Genetics Consortium Annual Meeting, Philadelphia, PA
- Mar. 27, 2024 “Genomics in LASI-DAD: Whole genome sequence analysis,” Alzheimer’s Disease Sequencing Program (ADSP) Program Review Meeting, Bethesda, MD
- Oct. 8, 2023 “Genetics of cognition and dementia in a South Asian Population: Experience and challenges from LASI-DAD,” Neuroepiomics Course 2023, University of Texas, Glenn Biggs Institute for Alzheimer’s and Neurodegenerative Diseases, San Antonio, TX
- July 14, 2023 “Sociodemographic variation in associations between *APOE* e4 and cognitive measures in the Longitudinal Study of Aging in India – Diagnostic Assessment of Dementia (LASI-DAD),” Annual LASI-DAD Investigator Meeting, Amsterdam, Netherlands
- June 8, 2023 “Epigenetic biomarkers of childhood and later life socioeconomic status are associated with age-related chronic diseases and mortality in older adults,” The Advances in Social Genomics Conference Series (TAGC), University of Wisconsin-Madison, WI
- May 17, 2023 “Sex-specific and generational effects of alcohol and tobacco use on epigenetic age acceleration in the Michigan Longitudinal Study,” Drug and Alcohol Dependence Reports (DADR) Editor's Picks Webinar, The College on Problems of Drug Dependence (Virtual)
- April 6, 2023 & May 18, 2023 “MY PART: Michigan and You – Partnering to Advance Research Together” Arab American Community Center for Economic and Social Services (ACCESS), Dearborn, MI
- Feb. 15, 2023 “Epigenomic biomarkers of social exposures are associated with cardiovascular risk factors and mortality,” Social Genomics Research Group, University of Wisconsin-Madison, WI
- Dec. 15, 2022 “Genome-wide association studies, gene-by-social factor interactions, and multi-omic analysis of cognitive function and dementia in older adults,” Family and Population Health Lab, Michigan State University (Virtual)
- Nov. 8, 2022 “A social epigenomic approach to cardiometabolic disparities,” Center for Demography and Ecology, University of Wisconsin-Madison (Virtual)
- Oct. 31, 2022 “Genomics in the Longitudinal Study of Aging in India – Diagnostic Assessment of Dementia (LASI-DAD): Whole genome sequencing,” Launch of LASI-DAD Wave 2, All India Institute of Medical Sciences (AIIMS), New Delhi, India
- Oct. 11, 2022 “Whole Genome Sequencing in the Longitudinal Study of Aging in India – Diagnostic Assessment of Dementia (LASI-DAD),” Alzheimer’s Disease Sequencing Program (ADSP) (Virtual)
- July 30, 2022 “Longitudinal Study of Aging in India (LASI) – Diagnostic Assessment of Dementia: Whole Genome Sequencing,” Annual LASI-DAD Investigator Meeting, San Diego, CA
- April 5, 2022 *Keynote Address*, “The role of epigenetic modifications in cardiometabolic aging of ancestrally and socially diverse populations,” Mini-symposium on Cardiometabolic Aging and Cellular Senescence, Experimental Biology (EB) Conference, Philadelphia, PA

- Jan. 31, 2022 “A social epigenomic approach to health disparities,” Epidemiology Department Seminar Series, University of Alabama at Birmingham (Virtual)
- Oct. 12, 2021 Panelist, “Complex disease: From variants to function with multiomics,” MORE Symposium, a Multiomics Research Event. Illumina, Inc. (Virtual)
- July 7, 2020 “Population stratification and admixture,” Journal Club for Social Science Genetics, University of Southern California, Los Angeles, CA (Virtual)
- July 23, 2020 “Longitudinal Study of Aging in India (LASI) – Diagnostic Assessment of Dementia: Update on Genomics,” Annual LASI Investigator Meeting, Amsterdam, Netherlands (Virtual)
- Oct. 13, 2019 “The association between common risk factors for age-related disease and DNA methylation clocks in an African American population,” International Genetic Epidemiology Society (IGES), Houston, TX
- June 7, 2019 “Social epigenomics: A new frontier for investigating cardiovascular and neurocognitive health disparities,” 6<sup>th</sup> Heidelberg Forum for Young Life Scientists, Heidelberg, Germany
- May 27, 2019 “Intrinsic and extrinsic epigenetic age acceleration is associated with hypertensive target organ damage in older African Americans,” International Summit on Aging & Gerontology, Rome, Italy
- April 10, 2019 “Investigating health disparities in cardiovascular risk factors using social epigenomic approaches,” Department of Public Health Sciences Seminar Series, University of Chicago, IL
- Jan. 25, 2019 “A social epigenomic approach to cardiovascular health disparities,” Department of Epidemiology and Biostatistics Seminar Series, Michigan State University, Lansing, MI
- Oct. 25, 2018 “Interaction between genetic and social factors in shaping disease risk,” Kidney Week, American Society of Nephrology (ASN), San Diego, CA
- Feb. 15, 2018 “Genotyping in the Longitudinal Aging Study in India – Diagnostic Assessment of Dementia (LASI-DAD) Study: Successes, challenges, and future directions,” 3<sup>rd</sup> Annual LASI-DAD Meeting, All India Institute of Medical Sciences (AIIMS), New Delhi, India
- Oct. 19, 2017 “Neighborhood characteristics influence DNA methylation of genes involved in stress response and inflammation: The Multi-Ethnic Study of Atherosclerosis,” Integrating Genetics and Social Sciences (IGSS) Conference, Boulder, CO
- June 22, 2017 “Genetic burden scores and early life socioeconomic status jointly influence memory performance and decline in older Americans,” Society for Epidemiologic Research (SER) Annual Meeting, Seattle, WA
- April 26, 2017 “Gene-level aggregate methods to evaluate genetic association and gene-by-environment interactions in cross-sectional and longitudinal data,” National Institute on Aging Biomarker Network Meeting, Chicago, IL
- Oct. 21, 2016 “Gene-based association and gene-by-education interaction on episodic memory in the Health and Retirement Study,” Integrating Genetics and Social Sciences Conference (IGSS) , Boulder, CO

- Feb. 28, 2013 “Age, epigenomic variation, and chronic disease in African Americans,” 3<sup>rd</sup> Annual Center for Integrative Approaches to Health Disparities (CIAHD)/Jackson Heart Study (JHS) Junior Investigator Symposium, Jackson, MS
- Dec. 3, 2007 “The genetic architecture of fasting plasma triglyceride response to Fenofibrate treatment,” PROGENI/NHLBI Gene-Environment Interaction Studies Annual Meetings, Baltimore, MD

***Internal to University of Michigan***

- Sep. 27, 2024 “Studying the genomics of cognitive function in India: Opportunities, challenges, and insights,” Center for Statistical Genetics and the Genomic Sciences Training Program T32 Seminar, Department of Biostatistics, School of Public Health, University of Michigan, Ann Arbor, MI
- July 19, 2024 “Precision health in diverse populations,” *Big Data Summer Institute*, School of Public Health, University of Michigan, Ann Arbor, MI
- Oct. 13, 2023 “Enhancing participant diversity in the Michigan Genomics Initiative,” Research Community Engagement Event, University of Michigan Precision Health, Ann Arbor, MI
- July 6, 2023 “Precision health in diverse populations,” *Big Data Summer Institute*, School of Public Health, University of Michigan, Ann Arbor, MI
- March 28, 2023 “Genetic information in research studies: Data use and security considerations,” Michigan Center for Contextual Factors in Alzheimer’s Disease (MCCFAD), Institute for Social Research, University of Michigan, Ann Arbor, MI (Virtual)
- Feb. 24, 2023 Panelist, “Women’s reproductive health and cardiovascular disease,” 2<sup>nd</sup> Annual Scientific Symposium, Michigan Biological Research Initiative on Sex Differences in Cardiovascular Disease (M-BRISC), Frankel Cardiovascular Center, University of Michigan, Ann Arbor, MI
- Sept. 30, 2022 “Ongoing recruitment strategies for the Michigan Genomics Initiative,” MGI 10<sup>th</sup> Anniversary Symposium, University of Michigan Precision Health, School of Public Health, University of Michigan, Ann Arbor, MI
- July 21, 2022 “Precision health in diverse populations,” *Big Data Summer Institute*, School of Public Health, University of Michigan, Ann Arbor, MI
- March 17, 2022 “Precision Health Workshop,” Department of Epidemiology Seminar Series, School of Public Health, University of Michigan, Ann Arbor, MI (Virtual)
- Oct. 6, 2021 “Social and genetic research using Michigan Medicine’s electronic health records (EHRs) and the Precision Health Analytics Platform,” Center for Social Epidemiology and Public Health (CSEPH), School of Public Health, University of Michigan, Ann Arbor, MI (Virtual)
- Sep. 24, 2021 “Social and genetic research using electronic health records (EHRs): The Michigan Genomics Initiative (MGI) and the Precision Health Analytics Platform,” Population, Neurodevelopment and Genetics (PNG), Survey Research Center, Institute for Social Research, University of Michigan, Ann Arbor, MI (Virtual)
- Winter 2021, Summer 2021 – Summer 2023, *Genomics for Social Scientists - Epigenetics*, Institute for Social Research, University of Michigan, Ann Arbor, MI  
- “Fundamental epigenetic analysis”

- Winter, 2025
- “Data reduction in epigenetics”
  - “Genetics and methylation”
  - “Epigenetics as a mediator of environmental effects”
- Feb. 17, 2020 “A social epigenomic approach to cardiovascular health disparities,” College of Pharmacy, University of Michigan, Ann Arbor, MI
- March 15, 2019 “Social epigenomics: A new frontier for investigating health disparities in chronic disease,” Faculty Research Showcase for Admitted Students, University of Michigan School of Public Health, Ann Arbor, MI
- Nov. 20, 2018 “Social epigenomics: A new frontier for investigating health disparities in chronic disease,” Epigenetics Seminar Series, University of Michigan Medical School, Ann Arbor, MI
- July 19, 2018 “Social epigenomics,” *Big Data Summer Institute*, School of Public Health, University of Michigan, Ann Arbor, MI
- March 9, 2018 “Social epigenomics: A new frontier for investigating health disparities in chronic disease,” Faculty Research Showcase for Admitted Students, University of Michigan School of Public Health, Ann Arbor, MI
- Summer 2017 - Summer 2024 *Genomics for Social Scientists*, Institute for Social Research, University of Michigan, Ann Arbor, MI
- “Population stratification and admixture: Avoiding the pitfalls and utilizing the strength of ancestry and admixture,”
  - “Quality control for genetic data,”
  - “Imputation: Basic explanation of genotype imputation, inputs and outputs, using online reference panels,”
  - “GWAS meta-analysis, SNP-based heritability, and LD score regression,”
  - “Structural and rare variants”
- March 23, 2017 Moderator, “Eliseo Perez-Stable (Director, NIMHD) and CIAHD Senior Investigators,” 7<sup>th</sup> Annual Center for Integrative Approaches to Health Disparities (CIAHD)/Jackson Heart Study (JHS) Junior Investigator Symposium, Ann Arbor, MI
- 2016-2017 Moderator of 3 seminars in the “Journeys in Genetics,” Seminar Series for the 20<sup>th</sup> Anniversary of the Certificate in Public Health Genetics program and the 75<sup>th</sup> Anniversary of the School of Public Health, University of Michigan, Ann Arbor, MI
- Nov. 18, 2016 Panelist, “Chronic Disease, Genetics, and Lifestage,” Epidemiology Symposium for the 75<sup>th</sup> Anniversary of the School of Public Health, School of Public Health, University of Michigan, Ann Arbor, MI
- April 26, 2016 “Omic epidemiology with a social twist: Applications to pathological aging of the brain,” Survey Research Center, Institute for Social Research, University of Michigan, Ann Arbor, MI
- March 11, 2016 Moderator, “Alumni Panel,” Admitted Student Day, Department of Epidemiology, University of Michigan, Ann Arbor, MI
- Feb. 15, 2016 “Omic epidemiology with a social twist: Applications to pathological aging of the brain,” Department of Epidemiology, University of Michigan, Ann Arbor, MI
- Feb. 12, 2016 “Omic epidemiology with a social twist: Applications to pathological aging of the brain,” Population, Neurodevelopment and Genetics (PNG), Survey Research Center, Institute for Social Research, University of Michigan, Ann Arbor, MI

## PUBLICATIONS

(underlined author is a student/mentee, \*starred authors contributed equally unless otherwise noted)

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### Full publication list:

<https://www.ncbi.nlm.nih.gov/myncbi/jennifer.smith.3/bibliography/public/>

### Peer-Reviewed Publications

1. Alqalyoobi S, **Smith JA**, Maddali MV, Pugashetti JV, Newton CA, Kim JS, Linderholm AL, Chen CH, Ma SF, Bose S, Murray S, Adegunsoye A, Strek ME, Garcia CK, Wolters PJ, Martinez FJ, Noth I, Oldham JM. Proteomic biomarkers of survival in non-IPF interstitial lung disease. *American Journal of Respiratory and Critical Care Medicine* (**Accepted**).
2. Robinette JW, **Smith JA**. Accelerated molecular aging in socially disadvantaged neighborhoods depends on race/ethnicity. *Health and Place* (**Accepted**).
3. Chaar DL, Li Z, Shang L, Ratliff SM, Mosley TH, Kardia SLR, Zhao W, **Smith JA**. Multi-ancestry transcriptome-wide association studies of cognitive function, white matter hyperintensity, and Alzheimer’s disease. *BMC Medical Genomics* (**Accepted**). Preprint: <https://www.mdpi.com/1422-0067/26/6/2443>
4. Nagarajan P, Winkler TW, Bentley AR, (...100+ additional authors including **Smith JA...**), Wang H. A large-scale genome-wide study of gene-sleep duration interactions for blood pressure in 811,405 individuals from diverse populations. *Molecular Psychiatry* (**Accepted**). Preprint: PMID: 38496537; PMCID: PMC10942520.
5. Hu Y, Haessler J, Lundin JI, Darst BF, (...25+ additional authors including **Smith JA...**), Peters U. Methylome-wide association analyses of lipids and modifying effects of behavioral factors in diverse race and ethnicity participants. *Clinical Epigenetics* (**Accepted**).
6. Zhao W, Lin L, Kelly KM, Opsasnick LA, Needham BL, Liu Y, Sen S, **Smith JA**. (2025) Epigenome-wide association study of perceived discrimination in the Multi-Ethnic Study of Atherosclerosis (MESA). *Epigenetics* (1):2445447. PMID: 39825881.
7. Lin L, Zhao W, Li Z, Ratliff SM, Wang YZ, Mitchell C, Faul JD, Kardia SLR, Birditt KS, **Smith JA**. (2025) Poly-epigenetic scores for cardiometabolic risk factors interact with demographic factors and health behaviors in older US adults. *Epigenetics* 20(1):2469205. PMID: 39976511; PMCID: PMC11844928.
8. Chaar DL, Tu L, Moore K, Du J, Opsasnick LA, Ratliff SM, Mosley TG, Kardia SLR, Zhao W, Zhou X, Diez Roux AV, Faruque FS, Butler KR, **Smith JA**. (2025) Neighborhood environment associations with cognitive function and structural brain measures in older African Americans. *BMC Medicine* 23(1):15. PMID: 39800688; PMCID: PMC11727707.
9. Iyer KR, Clarke SL, Guarishi-Sousa R, (...50+ additional authors including **Smith JA...**), Assimes TL. (2025) Unveiling the genetic landscape of coronary artery disease through common and rare structural variants. *Journal of the American Heart Association* 14(4):e036499. PMID: 39950338.

10. Li X, Chen H, Selvaraj MS, (...50+ additional authors including **Smith JA...**), Lin X. (2025) A statistical framework for multi-trait rare variant analysis in large-scale whole-genome sequencing studies. *Nature Computational Science* 5(2):125-143 PMID: 39920506.
11. Opsasnick LA, Zhao W, Ratliff SM, Du J, Faul JD, Schmitz LL, Zhou X, Needham BL, **Smith JA**. (2024) Epigenome-wide mediation analysis of the relationship between psychosocial stress and cardiometabolic risk factors in the Health and Retirement Study. *Clinical Epigenetics* 16(1):180. PMID: 39695878; PMCID: PMC11656575.
12. Jakubek YA, Ma X, Stilp A, Yu F, Bacon J, (...25+ additional authors including **Smith JA...**), Auer PA. (2025) Genomic and phenotypic correlates of mosaic loss of chromosome Y in blood. *American Journal of Human Genetics* 112(2):276-290. PMID: 39809269; PMCID: PMC11866972.
13. Roselli C, Surakka I, (...100+ additional authors including **Smith JA...**), Ellinor PT. (2025) Meta-analysis of genome-wide associations and polygenic risk prediction for atrial fibrillation in more than 180,000 cases. *Nature Genetics* 57(3):539-547. PMID: 40050429.
14. Bui H, Keshawarz A, Wang M, Lee M, Ratliff SM, Lin L, (...20+ additional co-authors), **Smith JA**, Levy D, Ma J, Liu C. (2024) Association analysis between an epigenetic alcohol risk score and blood pressure. *Clinical Epigenetics* 16(1):149. PMID: 39468603; PMCID: PMC11520477.
15. Rocheleau G, Clarke SL, Auguste G, (...50+ additional authors including **Smith JA...**), Do R. (2024) Rare variant contribution to the heritability of coronary artery disease. *Nature Communications* 15(1):8741. PMID: 39384761; PMCID: PMC11464707.
16. Hrytsenko Y, Shea B, (...25+ additional authors including **Smith JA...**), the Trans-Omics in Precision Medicine Consortium, Sofer T. (2024) Machine learning models for predicting blood pressure phenotypes by combining multiple polygenic risk scores. *Scientific Reports* 14(1):12436. PMID: 38816422; PMCID: PMC11139858.
17. Stoldt M, Ammous F, Lin L, Ratliff SM, Ware EB, Faul JD, Zhao W, Kardia SLR, **Smith JA**. (2024) DNA methylation at CRP-associated CpG sites may mediate the pathway between educational attainment and cognition. *Journals of Gerontology: Biological Sciences* 79(8):glae159. PMID: 38896024; PMCID: PMC11250242.
18. Huffman JE, Nicolas J, Hahn J, (...100+ additional authors including **Smith JA...**), Smith NL. Whole-genome analysis of plasma fibrinogen reveals population-differentiated genetic regulators with putative liver roles. *Blood* [E-pub ahead of print]. PMID: 39226462.
19. Wang YZ, Zhao W, Moorjani P, Gross AL, Zhou X, Dey AB, Lee J, **Smith JA**, Kardia SLR. (2024) Effect of apolipoprotein E e4 and its modification by sociodemographic characteristics on cognitive measures in South Asians from LASI-DAD. *Alzheimer's and Dementia* 20(7):4854-4867. PMID: 38889280; PMCID: PMC11247697.
20. Lin L, Kiryakos J, Ammous F, Ratliff SM, Ware EB, Faul JD, Kardia SLR, Zhao W, Birditt KS, **Smith JA**. (2024) Epigenetic age acceleration is associated with blood lipid levels in a multi-ancestry sample of older U.S. adults. *BMC Medical Genomics* 17(1):146. PMID: 38802805; PMCID: PMC11129464.
21. Gallagher LA, Schuler CF, Troost JP, Slack IF, Sanders GM, Baker Jr JR, **Smith JA**, O'Shea KM. (2024) Racial and socioeconomic disparities exist in patients pursuing peanut oral immunotherapy. *Journal of Allergy and Clinical Immunology: In-Practice* 12(8):2102-2108. PMID: 38692485.
22. Lundin JI, Peters U, Hu Y, (...22 additional authors including **Smith JA...**), Kooperberg C, PAGE Study. (2024) Methylation patterns associated with CRP inflammation trait in racially and ethnically diverse populations. *Epigenetics* 19(1):2333668. PMID: 38571307; PMCID: PMC10996836.

23. Suzuki K, Hatzikotoulas K, Southam L (...100+ additional authors including **Smith JA...**), Zeggini E. (2024) Genetic drivers of heterogeneity in type 2 diabetes pathophysiology. *Nature* 627(8003):347-357. PMID: 38374256; PMCID: PMC10937372.
24. Opsasnick LA, Zhao W, Schmitz LL, Ratliff SM, Faul JD, Zhou X, Needham BL, **Smith JA**. (2024) Epigenome-wide association of long-term psychosocial stress in older adults. *Epigenetics* 19(1): 2323907. PMID: 38431869; PMCID: PMC10913704.
25. Gao JT, Zheng Y, Joyce BT, Kho M, (...11 additional authors ...), **Smith JA**, Hou L. (2024) Epigenetic aging is associated with measures of midlife muscle volume and attenuation in CARDIA study. *Journal of Gerontology: Medical Sciences* 79(3):glad261. PMID: 37956337; PMCID: PMC10876078.
26. Mei H, Simino J, Li L, Jiang F, Bis JC, Davies G, (...50+ additional authors including **Smith JA...**), Mosley TH. (2024) Multi-omics and pathway analyses of genome-wide associations implicate regulation and immunity in verbal declarative memory performance. *Alzheimer's Research and Therapy* 16(1):14. PMID: 38245754; PMCID: PMC10799499.
27. Birditt K, Turkelson A, Polenick CA, Cranford JA, **Smith JA**, Ware EB, Blow FC. (2024) Alcohol use and mortality among older couples in the United States: Evidence of individual and partner effects. *Gerontologist* 64(2):gnad101. PMID: 37487060; PMCID: PMC10825846.
28. de Vries PS, Conomos MP, Singh K, Nicholson CJ, Jain D, (...100+ additional authors including **Smith JA...**), Peyser PA, Miller CL, Malhotra R. (2023) Whole genome sequencing uncovers two loci for coronary artery calcification and identifies ARSE as a regulator of vascular calcification. *Nature Cardiovascular Research* 2:1159–1172. PMID: 38817323; PMCID: PMC11138106.
29. Willems SM, Ng NHJ, Fernandez J, Fine RS, Wheeler E, Wessel J, (...100+ additional authors including **Smith JA...**), Barroso I. (2023) Large-scale exome array summary statistics resources for glyceic traits to aid effector gene prioritization. *Wellcome Open Research* 8:483. PMID: 39280063; PMCID: PMC11399760.
30. Armstrong ND, Irvin MR, Srinivasasainagendra V, Ammous F, (...25 additional authors including **Smith JA ...**), Arnett DK, on behalf of the NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium and the TOPMed Blood Pressure Working Group. (2023) Whole genome sequence analysis of apparent treatment resistant hypertension status in participants from the Trans-Omics for Precision Medicine Program. *Frontiers in Genetics* 14:1278215. PMID: 38162683; PMCID: PMC10755672.
31. Liu X, Sun X, Zhang Y, (...25+ additional authors including **Smith JA...**), Liu C. (2023) The association between whole blood-derived mitochondrial DNA copy number, low-density lipoprotein cholesterol, and cardiovascular disease risk. *Journal of the American Heart Association*. 12(20):e029090. PMID: 37804200; PMCID: PMC10757530.
32. Li Y, Wang M, Liu X, Rong J, Miller PE, Joehanes R, Huan T, Guo X, Rotter J, **Smith JA**, Yu B, Naylor MG, Levy D, Liu C, Ma J. (2023) Circulating metabolites may illustrate relationship of alcohol consumption with cardiovascular disease. *BMC Medicine* 21(1):443. PMID: 37968697; PMCID: PMC10652547.
33. Clark-Boucher D, Zhou X, Du J, Liu Y, Needham BL, **Smith JA**, Mukherjee B. (2023) Methods for mediation analysis with high-dimensional DNA methylation data: possible choices and comparison. *PLoS Genetics* 19(11):e1011022. PMID: 37934796; PMCID: PMC10655967.
34. Hasbani NR, Westerman KE, Kwak SH, (...50+ additional authors including **Smith JA...**), de Vries PS. (2023) Type 2 diabetes modifies the association of CAD genomic risk variants with subclinical

- atherosclerosis. *Circulation: Genomic and Precision Medicine* 16(6):e004176. PMID: 38014529; PMCID: PMC10843644.
35. de las Fuentes L, Schwander KL, (...100+ additional authors including **Smith JA...**), Fornage M. (2023) Gene-educational attainment interactions in a multi-population genome-wide meta-analysis identify lipid loci. *Frontiers in Genetics* 14:1235337. PMID: 38028628; PMCID: PMC10651736.
  36. Wang Y, Selvaraj MS, Li X, Li Z, (...50+ additional authors including **Smith JA...**), Peloso GM. (2023) Rare variants in long non-coding RNAs are associated with blood lipid levels in the TOPMed whole-genome sequencing study. *American Journal of Human Genetics* 110(10):1704-1717. PMID: 37802043; PMCID: PMC10577076.
  37. Jakubek YA, Zhou Y, Stilp A, Bacon J, Wong J, Ozcan Z, ... (...25+ additional authors including **Smith JA...**), Auer PL. (2023) Mosaic chromosomal alterations in blood across ancestries using whole-genome sequencing. *Nature Genetics* 55(11):1912-1919. PMID: 37904051; PMCID: PMC10632132.
  38. Kavousi M, Bos MM, Barnes HJ, Cardenas CLL, Wong D, (50+ additional authors including **Smith JA ...**), Bielak LF, Peyser PA, Malhotra R, van der Laan, SW, Miller CL. (2023) Multi-ancestry genome-wide study identifies effector genes and druggable pathways for coronary artery calcification. *Nature Genetics* 55(10):1651-1664. PMID: 37770635; PMCID: PMC10601987.
  39. Salvatore M, Clark-Boucher D, Fritsche LG, Ortlieb J, Houghtby J, Driscoll A, Caldwell-Larkins B, **Smith JA**, Brummett CM, Kheterpal S, Lisabeth L, Mukherjee B. Epidemiologic Questionnaire (EPI-Q) – A scalable, app-based health survey linked to electronic health record and genotype data. (2023) *Epidemiology and Health* 45:e2023074. PMID: 37591787; PMCID: PMC10867525.
  40. van de Vegte YJ, Eppinga RN, (...100+ additional authors including **Smith JA...**), van der Harst P. (2023) Genetic insights into resting heart rate and its role in cardiovascular disease. *Nature Communications* 14(1):4646. PMID: 37532724; PMCID: PMC10397318.
  41. Schmitz LL, Duffie E, Zhao W, Ratliff S, Ding J, Liu Y, Merkin SS, **Smith JA**, Seeman T. (2023) Associations of early-life adversity with later-life epigenetic aging profiles in the Multi-Ethnic Study of Atherosclerosis. *American Journal of Epidemiology* 192(12):1991-2005. PMID: 37579321; PMCID: PMC10988110.
  42. Howe LJ, Rasheed H, Jones PR, (...25+ additional authors including **Smith JA...**), Davies NM. (2023) Educational attainment, health outcomes and mortality: A within-sibship Mendelian randomization study. *International Journal of Epidemiology* 52(5):1579-1591. PMID: 37295953; PMCID: PMC10555788.
  43. Pan Y, Sun X, Mi X, (... 25+ additional authors including **Smith JA...**), Kelly TN, CRIC Study Investigators. (2023) Whole-exome sequencing study identifies four novel gene loci associated with diabetic kidney disease. *Human Molecular Genetics* 32(6):1048-1060. PMID: 36444934; PMCID: PMC9990994.
  44. Chen J, Hui Q, Wang Z, Wilson FP, So-Armah K, Freilberg MS, Justice AC, Xu K, Zhao W, **Smith JA**, Kardina SLR, Gwinn M, Marconi VC, Sun YV. (2023) Epigenome-wide meta-analysis reveals differential DNA methylation associated with estimated glomerular filtration rate among African American men with HIV. *Kidney International Reports* 8(5):1076-1086, PMID: 37180517; PMCID: PMC10166785.
  45. Leis AM, Mathis MR, Kheterpal S, Zawistowski M, Mukherjee B, Pace N, O'Reilly-Shah VN, **Smith JA**, Karvonen-Gutierrez CA. (2023) Cardiometabolic disease and obesity patterns differentially predict acute kidney injury after total joint replacement: A retrospective analysis. *British Journal of Anaesthesia* 131:37-46. PMID: 37188560; PMCID: PMC10308436.

46. Kurniansyah N, Goodman MO, Khan A, (...25+ additional authors including **Smith JA...**), Sofer T. (2023) Evaluating the use of blood pressure polygenic risk scores across race/ethnic background groups. *Nature Communications* 14:3202. PMID: 37268629; PMCID: PMC10238525.
47. Shang L, Zhao W, Wang YZ, Li Z, Choi JJ, Kho M, Mosley TH, Kardia SLR, **Smith JA\***, Zhou X\*. (2023) meQTL mapping in the GENOA study reveals genetic determinants of DNA methylation in African Americans. *Nature Communications* 14:2711. PMID: 37169753; PMCID: PMC10175543.
48. Mathieson I, Day FR, Barban N, (...50+ additional authors including **Smith JA...**), Mills MC, Perry JRB. (2023) Genome-wide analysis identifies genetic effects on reproductive success and ongoing natural selection at the *FADS* locus. *Nature Human Behaviour* 7(5):790-801. PMID: 36864135.
49. Yang Y, Knol MJ, Wang R, (...25+ additional authors including **Smith JA...**), Fornage M. (2023) Epigenetic and integrative cross-omics analyses of white matter hyperintensities on MRI. *Brain* 146(2):492-506. PMID: 35943854; PMCID: PMC9924914.
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#### ***Invited Reviews, Editorials, and Book Chapters***

1. **Smith JA**, Ware EB, Middha P, Beacher L, Kardia SLR. (2015) Current applications of genetic risk scores to cardiovascular outcomes and subclinical phenotypes. *Current Epidemiology Reports* 2(3):180-90. PMID: 26269782; PMCID: PMC4527979.
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3. Kelly RJ, **Smith JA**, Kardia SLR. (2010) "Providing context and interpretability to genetic association analysis results using the KGraph," in *Computational Methods for Genetics of Complex Traits*. Editors: Dunlap JC, Moore JH. Elsevier: USA. *Advances in Genetics Book Series (72)*:181-93. ISBN: 978-0-12-380862-2, PubMed PMID: 21029853.

#### ***Submitted Manuscripts***

1. Kerdoncuff E, Skov L, Patterson N, Zhao W, Lueng YY, Schellenberg GD, **Smith JA**, Dey S, Ganna A, Dey AB, Kardia SLR, Lee J, Moorjani P. 50,000 years of evolutionary history of India: insights from ~2,700 whole genome sequences. *Preprint*: PMID: 38405782; PMCID: PMC10888882.

2. [Abu-Amara H](#), [Zhao Z](#), [Li Z](#), (...10 additional authors...), **Smith JA**. Region-based analysis with functional annotation identifies genes associated with cognitive function in South Asians from India. *Preprint: PMID: 38293024; PMCID: PMC10827235*.
3. [Schmitz LL](#), [Opsasnick LA](#), [Ratliff SM](#), [Faul JD](#), [Zhao W](#), [Hughes TM](#), [Ding J](#), [Liu Y](#), **Smith JA**. Epigenetic biomarkers of socioeconomic status are associated with age-related chronic diseases and mortality in older adults. *Preprint: <https://www.medrxiv.org/content/10.1101/2024.05.21.24307701v1>*
4. [Modell SM](#), **Smith JA**, [Kardia SLR](#). Progress and criteria in public health applications of gene therapy: Beyond the white paper.
5. [Opsasnick LA](#), [Zhao W](#), [Schmitz LL](#), [Ratliff SM](#), [Faul JD](#), [Zhou X](#), [Needham BL](#), **Smith JA**. Depressive symptoms partially mediate the relationship between psychosocial factors and epigenetic age acceleration in a multi-racial/ethnic sample of older adults.
6. [Ware EB](#), [Schmitz L](#), [Faul J](#), [Gard A](#), [Mitchell C](#), **Smith JA**, [Zhao W](#), [Weir D](#), [Kardia SLR](#). Heterogeneous effects of polygenic scores for common human traits due to the method of construction. *Preprint: <https://doi.org/10.1101/106062.s>*
7. [Needham BL](#), [Gladish N](#), [Shen H](#), [Liu Y](#), **Smith JA**, [Mukherjee B](#), [Zhou X](#), [Rehkopf DH](#). Racial and ethnic differences in epigenetic aging: The National Health and Nutrition Examination Survey, 1999-2002.
8. [Bakulski KM](#), [Vadari HS](#), [Faul JD](#), [Heeringa SG](#), [Kardia SLR](#), [Langa KM](#), **Smith JA**, [Manly JJ](#), [Mitchell CM](#), [Benke KS](#), [Ware EB](#). A non-APOE polygenic score for Alzheimer's disease and APOE-ε4 have independent associations with dementia in the Health and Retirement Study. *Preprint: <https://www.medrxiv.org/content/10.1101/2020.02.10.20021667v2>*
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10. [Bares C](#), [Maddux S](#), [Lin L](#), [Glover Reed B](#), [Bowden M](#), [Zucker RA](#), **Smith JA**, [Zhao W](#), [Becker JB](#). Associations between individual and family environmental factors and DNA methylation in the FKBP5 gene in a subset of the Michigan Longitudinal Study.
11. [Hidalgo B](#), [Lent S](#), [DiCorpo D](#), [Cardona A](#), [Guan W](#), (...50+ additional authors including **Smith JA**...), [Pankow J](#), for the CHARGE consortium. DNA methylation signatures of type 2 diabetes and glycemic traits in multi-ancestry meta-analyses: CHARGE Consortium.
12. [Ng NHJ](#), [Willems SM](#), [Fernandez J](#), [Fine RS](#), [Wheeler E](#), [Wessel J](#), (...100+ additional authors including **Smith JA**...), [Barroso I](#). Tissue specific alteration of metabolic pathways influences glycemic regulation. *Preprint: <https://www.biorxiv.org/content/10.1101/790618v1>*
13. [Hellwege JN](#), [Liang J](#), [Giri A](#), [Keaton JM](#), [Sun X](#), [Torstenson ES](#), (...25+ additional authors including **Smith JA**...), [Edwards TL](#), on behalf of the Million Veteran Program, the COGENT Consortium, and with contributions from the TOPMed Blood Pressure working group. African ancestry genome-wide associate study of blood pressure and hypertension identifies 25 novel loci through predicted gene expression. *Preprint: <https://www.researchsquare.com/article/rs-1392991/v1>*
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15. Deelen J, Evans DS, Rodríguez-Girondo M, (...50+ additional authors including **Smith JA...**), Murabito JM. Reply to: Percentile-based definitions of age in studies of longevity.
16. Jun G, English AC, Metcalfe GA, Yang J, Chaisson MJP, (...50+ additional authors including **Smith JA...**), Abecasis G, Sedlitz FJ. Structural variation across 138,134 samples in the TOPMed consortium. *Preprint: <https://www.biorxiv.org/content/10.1101/2023.01.25.525428v1>*
17. Wang C, Wang X, (...50+ additional authors including **Smith JA...**), Vrieze S, Liu D. Assessing replicability in trans-ancestry genome-wide association meta-analysis of tobacco and alcohol use in 3.4 million individuals.
18. Zhang X, Brody JA, Graff M, (...100+ additional authors including **Smith JA...**), Justice AE. Whole genome sequencing analysis of body mass index identifies novel African ancestry-specific risk allele. *Preprint: PMID: 37662265; PMCID: PMC10473809.*
19. Pugashetti JV, Kim JS, Bose S, Adegunsoye A, Linderholm AL, Chen CH, Streck ME, Flaherty KR, Murray S, Newton CA, Bowler RP, Han MK, Curtis JL, Martinez FJ, **Smith JA**, Noth I, Oldham JM. Biological age, chronological age and IPF survival: a causal mediation analysis.
20. Yaser M, Krishnan M, (...50+ additional authors including **Smith JA...**), Graff M. Genome-wide association study provides new insights into genetic architecture of severe obesity.
21. Lundin JI, Peters U, Hu Y, (...25+ additional authors including **Smith JA...**), Kooperberg C, on behalf of the PAGE study. DNA methylation patterns highlight biological processes and genetic regulatory mechanisms associated with interleukin-6.
22. Li Z, Li X, Lin BM, (25+ additional authors including **Smith JA**), Kramer H. Multi-ethnic whole genome sequencing analysis reveals rare coding and noncoding variants associated with eGFR and UACR.
23. Huang YJ, Kurniansyah N, Goodman MO, (...25+ additional authors including **Smith JA...**), Sofer T. The expected polygenic risk score (ePRS) framework: an equitable metric for quantifying polygenic risk via modelling of ancestral makeup. *Preprint: PMID: 39763564; PMCID: PMC11702733.*
24. Lundin J, Peters U, Hu Y, (...25+ additional authors including **Smith JA...**), Kooperberg C. Epigenetic mechanisms underlying variation of IL-6, a well-established inflammation biomarker and risk factor for cardiovascular disease.
25. Bentley AR, Brown MR, Musani SK (...100+ additional authors including **Smith JA...**), Fox ER. Multi-ancestry genome-wide association analyses incorporating SNP-by-psychosocial interactions identify novel loci for serum lipids.
26. Hatzikotoulas K, Southam L, Stefansdottir L, Boer CG, McDonald, ML, (...100+ additional authors including **Smith JA...**), Zeggini E. Translational genomics of osteoarthritis in 1,962,069 individuals.
27. Noordam R, Wang W, Nagarajan P, (...100+ additional authors including **Smith JA...**), van Heemst D. A large-scale genome-wide gene-sleep interaction study in 732,564 participants identifies lipid loci explaining sleep-associated lipid disturbances. *Preprint: PMID: 39281768; PMCID: PMC11398441.*
28. Sarnowski C, Zhang Y, Ammous F, (...50+ additional authors including **Smith JA...**), Morrison AC, on behalf of the TOPMed Diabetes working group and the TOPMed Neurocognitive working group. Associations of genetic scores related to insulin resistance with neurological outcomes in ancestrally diverse cohorts from the Trans-Omics for Precision Medicine (TOPMed) program.
29. Yang X, Kim MS, Zhu X, (... 25+ additional authors including **Smith JA...**), Fahed AC. An integrated germline and somatic genomic model improves risk prediction for coronary artery disease.

30. Lai M, Kim K, Zheng Y, (...32 additional co-authors), **Smith JA**, Arking DE, Liu C, and NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium. Epigenome-wide association analysis of mitochondrial heteroplasmy provides insight into molecular mechanisms of disease. *Preprint: PMID: 39677472; PMCID: PMC11643249.*
31. Selvaraj MS, Li X, Li Z, Van Buren E, Haidermota S, (...50+ additional authors **including Smith JA...**), Peloso GM, Nataranjan P. The genetic architecture of low-density lipoprotein cholesterol across 1.23 billion variants.

***Abstracts for Professional Meetings (Oral/Poster Presenter and/or Senior Author)***

1. Robinette JW, **Smith JA**. Accelerated molecular aging in neighborhood poverty: A racial/ethnic comparison. The Gerontological Society of America (GSA) Annual Meeting, San Antonio, TX, October 19-22, 2025. (*submitted*)
2. **Smith JA**, Abu-Amara H, Zhao W, Li Z, Leung YY, Schellenberg GC, Wang LS, Moorjani P, Crimmins EM, Thyagarajan B, Anwar M, Hu P, Dey S, Dey AB, Zhou X, Thangaraj K, Lee J, Kardia SLR. Gene-centric analysis using functional annotation identifies genetic associations with blood-based biomarkers of Alzheimer's disease in older adults from India. Alzheimer's Association International Conference (AAIC), Toronto, Ontario, Canada, July 27-31, 2025. (*submitted*)
3. Opsasnick LA, Zhao W, Ratliff SM, Faul JD, Schmitz LL, Zhou X, Du J, Needham BL, **Smith JA**. Epigenome-wide mediation analysis of the relationship between psychological stress and cardiometabolic risk factors in the Health and Retirement Study (HRS). International Genetic Epidemiology Society (IGES) Conference, Denver, CO, November 3-4, 2024.
4. Abu-Amara H, Zhao W, Li Z, Leung YY, Schellenberg GD, Wang LS, Moorjani P, Dey AB, Dey S, Zhou X, Gross AL, Lee J, Kardia SLR, **Smith JA**. Indian-enriched genetic variants are associated with cognitive function. Alzheimer's Association International Conference (AAIC), Philadelphia, PA, July 28-August 1, 2024.
5. Wang YZ, Zhao W, Kerdoncuff E, Li Z, Moorjani P, Gross AL, Zhou X, Dey S, Dey AB, Lee J, **Smith JA**, Kardia SLR. Geographic and ancestral variation in the association between APOE ε4 and cognitive function in South Asians from LASI-DAD. Alzheimer's Association International Conference (AAIC), Philadelphia, PA, July 28-August 1, 2024.
6. Opsasnick LA, Zhao W, Ratliff SM, Faul JD, Schmitz LL, Zhou X, Du J, Needham BL, **Smith JA**. Epigenome-wide mediation analysis of the relationship between psychological stress and cardiometabolic risk factors in the Health and Retirement Study (HRS). The Advances in Social Genomics Conference, Madison, WI, June 5-7, 2024.
7. Lin L, Meier HCS, Faul J, **Smith JA\***, Mitchell C\*. The time-sensitive associations between poverty and genome-wide epigenetic patterns: Findings from the Future of Families and Child Wellbeing Study (FFCWS). Population Association of America, Columbus, OH, April 17-20, 2024.
8. Schmitz L, Opsasnick LA, Ratliff SM, Faul JD, Zhao W, Hughes TM, Ding J, Liu Y, **Smith JA**. Epigenetic biomarkers of socioeconomic status are associated with age-related chronic diseases and mortality in older adults. Population Association of America, Columbus, OH, April 17-20, 2024.
9. Abu-Amara H, Zhao W, Li Z, Leung YY, Schellenberg GD, Wang LS, Moorjani P, Dey AB, Dey S, Zhou X, Gross AL, Lee J, Kardia SLR, **Smith JA**. Indian-enriched genetic variants are associated with cognitive function. Alzheimer's Disease Sequencing Program (ADSP) Annual Review Meeting, Bethesda, MD, March 27-28, 2024.

10. Lin L, Zhao W, Birditt K, **Smith JA**. Methylation risk scores are associated with cardiovascular risk factors in older U.S. adults. Gerontological Society of America, Tampa, FL, November 8-12, 2023.
11. Abu-Amara H, Zhao W, Li Z, Dey AB, Zhou X, Lee J, Kardia SLR, **Smith JA**. Gene-based analysis with functional annotation in 2680 South Asians from the LASI-DAD study. Alzheimer's Association International Conference (AAIC), Amsterdam, Netherlands, July 16-20, 2023.
12. Lin L, Kiryakos J, Ammous F, Ratliff SM, Ware EB, Faul JD, Kardia SLR, Birditt K, **Smith JA**. Interaction between epigenetic age acceleration and demographic factors on blood lipid levels in the Health and Retirement Study. Society for Epidemiologic Research (SER), Portland, OR, June 13-16, 2023.
13. **Smith JA**, Opsasnick LA, Ratliff SM, Faul JD, Zhao W, Schmitz LL. Epigenetic biomarkers of socioeconomic status are associated with age-related chronic diseases and mortality in older adults. The Advances in Social Genomics Conference Series (TAGC), Madison, WI, June 8-9, 2023.
14. Opsasnick LA, Ratliff SM, Faul JD, Schmitz LL, Zhao W, **Smith JA**. Epigenome-wide association study of long-term psychosocial stress in older adults. The Advances in Social Genomics Conference Series (TAGC), Madison, WI, June 8-9, 2023.
15. Opsasnick LA, Ratliff SM, **Smith JA**. Epigenome-wide association study of long-term psychosocial stress in a population of older adults in the United States. National Human Genome Research Institute (NHGRI) T32 Training Grant in Genomic Sciences Annual Conference, Salt Lake City, UT, April 2-4, 2023.
16. Abu-Amara H, Zhao W, Li Z, Dey AB, Zhou X, Lee J, Kardia SLR, **Smith JA**. Gene-based analysis with functional annotation identifies associations with cognitive function in South Asians. Department of Epidemiology Doctoral Day. Ann Arbor, MI. March 13, 2023.
17. Opsasnick LA, Ratliff SM, Faul JD, Schmitz LL, Zhao W, **Smith JA**. Epigenome-wide association study of long-term psychosocial stress in older adults. Department of Epidemiology Doctoral Day. Ann Arbor, MI. March 13, 2023.
18. Lin L, Zhao W, Birditt K, **Smith JA**. Methylation risk scores are associated with cardiovascular risk factors in older U.S. adults. Department of Epidemiology Doctoral Day. Ann Arbor, MI. March 13, 2023.
19. Zhang X, Ammous F, Lin L, Ratliff SM, Zhao W, Kardia SLR, **Smith JA**. The interplay of epigenetic, genetic, and traditional risk factors on blood pressure: Findings from the Health and Retirement Study. American Society of Human Genetics, Los Angeles, CA, October 25-29, 2022.
20. Shang L, Zhao W, Wang YZ, Li Z, Choi JJ, Kho M, Mosley TH, Kardia SLR, **Smith JA\***, Zhou X\*. Genetic determinants of DNA methylation in African Americans: An meQTL mapping study in GENOA. American Society of Human Genetics, Los Angeles, CA, October 25-29, 2022.
21. Ammous F, Zhang X, Lin L, Ratliff SM, Zhao W, Kardia SLR, **Smith JA**. The interplay of epigenetic, genetic, and traditional risk factors on blood pressure: Findings from the Health and Retirement Study. Cohorts for Genomic Epidemiology in Heart and Aging Research (CHARGE) Consortium, Seattle, WA, October 12-14, 2022.
22. **Smith JA**, Kho M, Ammous F, Bressler J, Opsasnick LA, on behalf of the TOPMed Neurocognitive Working Group. Whole genome sequencing association analysis of general cognitive function in a multi-ethnic sample from the Trans-Omics for Precision Medicine (TOPMed) Program. Cohorts for Genomic Epidemiology in Heart and Aging Research (CHARGE) Consortium, Philadelphia, PA, April 27-29, 2022.

23. Wang YZ, Zhao W, Ammous F, Song Y, Du J, Shang L, Ratliff SM, Moore K, Kelly KM, Needham BL, Diez Roux AV, Liu Y, Butler KR, Kardia SLR, Mukherjee B, Zhou X, **Smith JA**. DNA methylation mediates the association between individual and neighbourhood social disadvantage and cardiovascular risk factors. University of Michigan, School of Public Health Doctoral Day (Virtual), January 21, 2022.
24. **Smith JA**, Kho M, Bressler J, Sarnowski C, Zhao W, Chaar D, Wang YZ, Ammous F, Bis JC, Nyquist P, Heckbert SR, Satizabal C, Yang Q, Snively B, Rodrigue A, Litkowski E, Glahn D, Hayden KM, Fitzpatrick A, Psaty B, Kardia SLR, Fornage M, Seshadri S, on behalf of the TOPMed Neurocognitive Working Group. Whole genome sequencing association analysis of general cognitive function in a multi-ethnic sample from the Trans-Omics for Precision Medicine (TOPMed) Program. American Society of Human Genetics (Virtual), October 18-22, 2021.
25. Ammous F, Zhao W, Lin L, Ratliff SM, Mosley TH, Bielak LF, Zhou X, Peyser PA, Kardia SLR, **Smith JA**. Epigenetics of Single and Multisite Atherosclerosis in African Americans from the Genetic Epidemiology Network of Arteriopathy (GENOA). American Society of Human Genetics (Virtual), October 18-22, 2021.
26. **Smith JA**, Zhao W, Yu M, Moorjani P, Ganna A, Dey AB, Lee J, Kardia SLR. Common and rare variants in topologically associated domains for cognitive function in South Asians from the LASI-DAD Study. Alzheimer's Association International Conference (Virtual), July 26-30, 2021.
27. **Smith JA**, Zhao W, Peyser PA, Crandall CJ, Thurston RC, Ruiz-Narvaez E, Yu M, Hood MM, Kardia SLR, Harlow SD. Genetics of reproductive timing are associated with vasomotor symptom trajectories at the menopausal transition in women across multiple ethnicities. American Society of Human Genetics (Virtual), October 27-31, 2020.
28. Wang YZ, Zhao W, Song Y, Ratliff SM, Kelly KJ, Needham BL, Diez Roux AV, Liu Y, Faruque F, Butler KR, Kardia SLR, Mukherjee B, Zhou X, **Smith JA**. DNA methylation mediates the association between individual and neighborhood social disadvantage and cardiovascular risk factors. American Society of Human Genetics (Virtual), October 27-31, 2020.
29. Ammous F, Zhao W, Ratliff SM, Mosley TH, Bielak LF, Zhou X, Kardia SLR, **Smith JA**. Epigenetic age acceleration in African Americans associates with cardiometabolic risk factors and clinical cardiovascular disease risk scores. American Society of Human Genetics (Virtual), October 27-31, 2020.
30. Kho M, Wang YZ, Chaar D, Ratliff SM, Mosley T, Kardia SLR, **Smith JA**. Accelerated DNA methylation age and medication use among older African Americans. American Society of Human Genetics (Virtual), October 27-31, 2020.
31. Faul JA, Kho M, Zhao W, Rumfelt KE, Mitchell C, **Smith JA**. Trans-ethnic Meta-analysis of Interactions between genetics and early life socioeconomic status on memory performance and decline in older Americans. Alzheimer's Association International Conference (Virtual), July 27-31, 2020.
32. Ammous F, Zhao W, Ratliff SM, Mosley TH, Kardia SLR, Zhou X, Shang L, **Smith JA**. Epigenome-wide association study identifies DNA methylation sites associated with target organ damage in older African Americans. Department of Epidemiology Doctoral Day. Ann Arbor, MI. January 29, 2019.
33. Molina CA, Kho M, Ratliff SM, Mosley TH, Kardia SLR, Zhao W, **Smith JA**. The association between DNA methylation and white matter hyperintensities in an older African American population. Department of Epidemiology Masters Student Poster Day. Ann Arbor, MI. November 8, 2019.

34. **Smith JA**, Shang L, Zhao W, Kho M, Turner ST, Mosley TH, Kardia SLR, Zhou X. Contrasting the genetic architecture underlying gene expression levels in European American and African Americans: An eQTL mapping study in GENOA. American Society of Human Genetics (ASHG), Houston, TX, October 15-19, 2019.
35. Kho M, Ratliff SM, Ammous F, Zhao W, Mosley TH, Kardia SLR, Zhou X, **Smith JA**. Epigenetic loci for blood pressure are associated with hypertensive target organ damage in an older African Americans. International Genetic Epidemiology Society (IGES), Houston, TX, October 12-14, 2019. *Highlighted poster, with accompanying oral presentation.*
36. Zhao W, Ammous F, Ratliff S, Mosley TH, Kardia SLR, **Smith JA**. The association between common risk factors for age-related disease and DNA methylation clocks in an African American population. International Genetic Epidemiology Society (IGES), Houston, TX, October 12-14, 2019.
37. **Smith JA**, Zhao W, Yu M, Moorjani P, Ganna A, Dey AB, Kardia SLR, Lee J. Association between Alzheimer's Disease risk SNPs and episodic memory in South Asians from the LASI-DAD study. International Genetic Epidemiology Society (IGES), Houston, TX, October 12-14, 2019.
38. Ammous F, Zhao W, Ratliff SM, Mosley TH, Kardia SLR, Zhou X, **Smith JA**. Epigenome-wide association study identifies DNA methylation sites associated with target organ damage in elderly African Americans. American Heart Association: Hypertension, New Orleans, LA, September 6, 2019. *Nominated for Hypertension Early Career Oral Awards.*
39. **Smith JA**, Raisky J, Zhao W, Ratliff SM, Mosley TH, Turner ST. Intrinsic and extrinsic epigenetic age acceleration is associated with hypertensive target organ damage in older African Americans. International Summit on Aging and Gerontology. Rome, Italy, May 27, 2019.
40. Eder B, Hood M, Merillat S, Karvonen-Gutierrez C, Kardia SLR, Harlow S, **Smith JA**. Association between genetic variation in the FTO gene, age at menopause and sex steroid hormone levels in a multi-ethnic sample of American women. Department of Epidemiology Masters Student Poster Day. Ann Arbor, MI, November 2, 2018.
41. Seaton R, Zhao W, Ratliff SM, Mosley TH, Bielak LF, **Smith JA**. The influence of neighborhood disadvantage on blood pressure-associated DNA methylation sites in African Americans. Department of Epidemiology Masters Student Poster Day. Ann Arbor, MI, November 2, 2018.
42. Raisky J, Zhao W, Ratliff SM, Turner ST, Mosley TH, **Smith JA**. Epigenetic age acceleration is associated with target organ damage in African Americans. International Genetic Epidemiology Society, San Diego, CA, October 14-16, 2018.
43. Liu J, Zhao W, Zhou X, **Smith JA**. Longitudinal analysis of DNA methylation reveals novel smoking-related loci in African Americans. International Genetic Epidemiology Society, San Diego, CA, October 14-16, 2018.
44. Raisky J, Zhao W, Ratliff S, Turner ST, Mosley TH, **Smith JA**. Epigenetic age acceleration is associated with target organ damage in African Americans. Department of Epidemiology Masters Student Poster Day, Ann Arbor, MI, November 10, 2017.
45. Zhao Y, Bielak LF, Zhao W, Ratliff SM, Mosley TH, Turner ST, Peyser PA, **Smith JA**. *PNPLA3* methylation in circulating blood leukocytes is associated with hepatic steatosis in African Americans. Department of Epidemiology Masters Student Poster Day, Ann Arbor, MI, November 10, 2017.
46. **Smith JA**, Zhao W, Wang X, Ratliff SM, Mukherjee B, Kardia SLR, Liu Y, Diez Roux AV, Needham BL. Neighborhood characteristics influence DNA methylation of genes involved in stress response and inflammation: The Multi-Ethnic Study of Atherosclerosis. Integrating Genetics and Social Sciences, Boulder, CO, October 19-20, 2017.

47. **Smith JA**, Hillman TJ, Kho M, Zhao W, Mitchell C, Faul J. Genetic burden scores and early life socioeconomic status jointly influence memory performance and decline in older Americans. Society for Epidemiologic Research, Seattle, WA, June 20-23, 2017.
48. Liu J, Zhao W, Ware EB, Kardia SLR, Turner ST, Mosley TH, **Smith JA**. DNA methylation in the *APOE* gene region is associated with cognitive function in African Americans, Society for Epidemiologic Research, Seattle, WA, June 20-23, 2017.
49. Ware EB, Schmitz LL, Faul JD, Gard A, Mitchell C, **Smith JA**, Zhao W. Implications of polygenic score estimation methods on gene-by-environment interaction analyses. Society for Epidemiologic Research, Seattle, WA, June 20-23, 2017.
50. Faul JD, Zhao W, Kho M, **Smith JA**. Gene-based association and gene-by-environment interaction on episodic memory in the Health and Retirement Study – An examination of the effect of childhood SES on later life cognitive decline. Population Association of America, Chicago, IL, April 27-29, 2017.
51. **Smith JA**, Zhao W, Kho M, Mitchell C, Faul JD. Gene-level aggregate methods to evaluate genetic association and gene-by-environment interactions in cross-sectional and longitudinal data. National Institute on Aging Biomarker Network, Chicago, IL, April 26, 2017.
52. Liu X, Mosley TH, Turner ST, Kardia SLR, Zhao W, Ware EB, **Smith JA**. APOE methylation and cognitive function among African Americans in the GENOA Cohort. Department of Epidemiology Masters Student Poster Day. Ann Arbor, MI. October 28, 2016.
53. Hillman TJ, Kho MJ, Zhao W, Mitchell C, Faul JD, **Smith JA**. Interactions between genetic burden score and educational attainment on memory performance and decline. Department of Epidemiology Masters Student Poster Day. Ann Arbor, MI. October 28, 2016.
54. **Smith JA**, Faul JD, Zhao W, Kho M, Hillman TJ, Ware EB, Mitchell C. Gene-based association and gene-by-education interaction on episodic memory in the Health and Retirement Study. Integrating Genetics and Social Sciences, Boulder, CO, October 21-22, 2016.
55. **Smith JA**, Ware EB, Zhao W, Faul JD, Kardia SLR. Gene-by-psychosocial factor interactions on blood pressure in older non-Hispanic whites and African Americans: A genomic region-level analysis. American Heart Association Epidemiology and Prevention / Lifestyle and Cardiometabolic Health, Phoenix, AZ, Mar 1-4, 2016.
56. Faul JD, Mitchell C, **Smith JA**. Is heritability of telomere length modified by lifecourse socioeconomic status? 4<sup>th</sup> Annual Integrating Genetics and Social Sciences, Boulder, CO, October 9-10, 2014.
57. **Smith JA**, Zhao W, Needham B, Faul JD, Seeman TE, Boerwinkle E, Chakravarti A, Weir DR, Kardia SLR, Diez-Roux AV. Identifying interactions among social, psychosocial, and genetic factors that influence blood pressure in three multi-ethnic epidemiological cohorts: the Multi-Ethnic Study of Atherosclerosis (MESA), the Atherosclerosis Risk in Communities Study (ARIC), and the Health and Retirement Study (HRS). American Society of Human Genetics, Boston, MA, October 22-26, 2013.
58. **Smith JA**, Lazarus AL, Mosley TH, Jr., Turner ST, Kardia SLR. An epigenetic intersection of age, inflammation, and kidney function. International Genetic Epidemiology Society (IGES), Stevenson, WA, October 18-20, 2012. *Genetic Epidemiology* 36(7):769.
59. **Smith JA**, Arnett DK, Kelly RJ, Ordovas JM, Sun Y, Hopkins PN, Hixson JE, Straka RJ, Peacock JM, Kardia SLR. SNP-risk factor interactions predict postprandial triglyceride response to Fenofibrate. 2008 Doctoral Student Health Research Symposium: Multi-Disciplinary Approaches Toward Improving Health, University of Michigan, Ann Arbor, MI, March 24, 2008.

60. **Smith JA**, Kardia SLR. The genetic architecture of fasting plasma triglyceride response to Fenofibrate treatment. PROGENI/NHLBI Gene-Environment Interaction Studies, Baltimore, MD, December 3-4, 2007.
61. **Smith JA**, Turner ST, Sun YV, Fornage, Mosley TH, Boerwinkle E, de Andrade M, Kardia SLR. The genetic architecture of leukoaraiosis in hypertensive sibships. International Genetic Epidemiology Society (IGES), North Yorkshire, England, September 7-10, 2007. *Genetic Epidemiology* 32(7):714.
62. **Smith JA**, Arnett DK, Kelly RJ, Ordovas JM, Sun Y, Hopkins PN, Hixson JE, Straka RJ, Peacock JM, Kardia SLR. SNP-risk factor interactions predict postprandial triglyceride response to Fenofibrate. Clinical Cardiovascular Genomics, Cold Spring Harbor Laboratory, Cold Spring, NY, October 10-13, 2007.
63. **Smith JA**, Arnett DK, Kelly RJ, Ordovas JM, Sun Y, Hopkins PN, Peacock JM, Kardia SLR. Interacting genetic factors influencing fasting VLDL response to Fenofibrate. International Genetic Epidemiology Society (IGES), St. Petersburg, FL, November 16-17, 2006. *Genetic Epidemiology* 31(5):498.
64. **Smith JA**, Arnett DK, Kelly RJ, Ordovas JM, Sun Y, Hopkins PN, Hixson JE, Straka RJ, Peacock JM, Kardia SLR. A novel apolipoprotein A-IV polymorphism is associated with lipoprotein metabolism and response to Fenofibrate. 2<sup>nd</sup> North American Congress of Epidemiology, Society for Epidemiologic Research, Seattle, WA, June 21-24, 2006. *American Journal of Epidemiology* 163 (Suppl 11):S128.

#### ***Abstracts for Professional Meetings (Co-Author)***

1. Gardner HR, Ratliff S, Chen J, **Smith J**, North KE, Justice AE, Fernandez-Rhodes L, on behalf of Genetic Epidemiology Network of Arteriopathy, the Intergenerational Blood Pressure and Health and Retirement Study coauthors. Trans-ancestral analyses of obesity and socioeconomic status reveal significant associations with DNA methylation. Society for Epidemiologic Research Annual Meeting, Boston, MA, June 10-13, 2025 (*submitted*).
2. Zhao W, **Smith JA**, Abu-Amara H, Leung YY, Schellenberg GC, Wang LS, Moorjani P, Crimmins EM, Thyagarajan B, Anwar M, Hu P, Dey S, Dey AB, Zhou X, Thangaraj K, Lee J, Kardia SLR. Genetic variants in MAPT are associated with Alzheimer's disease blood biomarkers in South Asians from LASI-DAD. Alzheimer's Association International Conference (AAIC), Toronto, Ontario, Canada, July 27-31, 2025. (*submitted*)
3. Leis AM, Zawistowski M, Mathis MR, **Smith JA**, Kheterpal S, Mukherjee B, Karvonen-Gutierrez CA. Polygenic risk score for diabetes predicts postoperative acute kidney injury. Gerontological Society of America (GSA) Annual Meeting, Seattle, WA, November 12-16, 2024.
4. Hutten CG, Boem F, **Smith JA**, Wassertheil-Smoller S, Isasi CR, Cai J, Unkart J, Sun J, Persky V, Daviglius M, Sofer T, Argos M. Prediction of coronary artery disease in Hispanic/Latinos using large-scale polygenic risk scores: Findings from the Hispanic Community Health Study/Study of Latinos (HCHS/SOL). American Society of Human Genetics (ASHG), Denver, CO, November 6-9, 2024.
5. Zhao W, Li Z, Zhou X, Moorjani P, Dey S, Dey AB, Lee J, **Smith JA**, Kardia SLR. A reference panel for linkage disequilibrium and genotype imputation using whole-genome sequencing data from 2680 LASI-DAD participants across India. American Society of Human Genetics (ASHG), Denver, CO, November 6-9, 2024.
6. Kerdoncuff E, Skov L, Patterson N, Zhao W, Lueng YY, Schellenberg GD, **Smith JA**, Dey S, Ganna A, Dey AB, Kardia SLR, Lee J, Moorjani P. 50,000 years of evolutionary history of India: insights

from ~2,700 whole genome sequences. Society for Molecular Biology and Evolution. Puerto Vallarta, Mexico, July 7-11, 2024.

7. Wang YZ, Zhao W, Kerdoncuff E, Li Z, Moorjani P, Gross AL, Zhou X, Dey S, Dey AB, Lee J, **Smith JA**, Kardia SLR. Sociodemographic and ancestral variation in the association between APOE  $\epsilon$ 4 and cognitive function in South Asians from LASI-DAD. Alzheimer's Disease Sequencing Program (ADSP) Annual Review Meeting, Bethesda, MD, March 27-28, 2024.
8. Gallagher LA, Schuler CF, Troost JP, Slack IF, Sanders GM, Baker Jr JR, **Smith JA**, O'Shea KM. Racial and socioeconomic disparities exist in peanut OIT populations. American Academy of Allergy, Asthma, and Immunology, Washington, DC, February 23-26, 2024.
9. Sarnowski C, Gaynor S, Jian X (...20+ additional authors including **Smith JA...**), Morrison AC. Polygenic scores for insuling resistance are associated with brain volumes in the NHLBI Trans-Omics for Precision Medicine (TOPMed) Program. American Society of Human Genetics (ASHG), Washington, DC, November 1-5, 2023.
10. Krishnan M, Anwar MY, (...15+ additional authors including **Smith JA...**), Graff M. Genome-wide association study identifies novel risk loci and provides new insights into genetic architecture of severe obesity. American Society of Human Genetics (ASHG), Washington, DC, November 1-5, 2023.
11. Huang, YJ, Kurniansyah N, Goodman MO (...28 additional authors including **Smith JA...**), Sofer T. The expected polygenetic risk score (ePRS) framework: an equitable metric to quantifying polygenetic risk via modelling of ancestral makeup. American Society of Human Genetics, Washington, D.C., November 1-5, 2023.
12. Lai M, Kim K, Zheng Y, Castellani C, Joehanes R, Huan T, Ma J, Hou L, Guo X, Levy D, Reiner A, Rotter J, **Smith JA**, Arking D, Liu C, representing the TOPMed mtDNA Working Group. The association analyses of DNA methylation and mitochondrial DNA heteroplasmy. Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium, Orlando, FL, July 20-23, 2023.
13. Wang YZ, Zhao W, Dey AB, Lee J, **Smith JA**, Kardia SLR. Effect of *APOE*  $\epsilon$ 4 and its modification by sociodemographic characteristics on cognitive measures in South Asians from LASI-DAD. Alzheimer's Association International Conference (AAIC), Amsterdam, Netherlands, July 16-20, 2023.
14. Birditt K, Turkelson AM, Polenick CA, Cranford JA, **Smith JA**, Ware EB, Blow FC. Alcohol use and mortality among older couples in the United States: Evidence of individual and partner effects. Research Society on Alcoholism, Bellevue, WA, June 24-28, 2023.
15. Lundin, (...20+ additional authors including **Smith JA...**), Kooperberg C. Methylation patterns associated with inflammation traits in racially and ethnically diverse populations. American Society of Human Genetics, Los Angeles, CA, October 25-29, 2022.
16. Lundin, (...20+ additional authors including **Smith JA...**), Kooperberg C. Methylation patterns associated with inflammation traits in racially and ethnically diverse populations. Cohorts for Genomic Epidemiology in Heart and Aging Research (CHARGE) Consortium, Seattle, WA, October 12-14, 2022.
17. Kho M, **Smith JA**, Miller CL, Peyser PA, Kardia SLR, on behalf of the CHARGE Gene-Lifestyle Interactions Working Group. Gene-sodium intake interactions reveal new blood pressure loci in a multi-ancestry genome wide association study in CHARGE and UK Biobank. Cohorts for Genomic Epidemiology in Heart and Aging Research (CHARGE) Consortium, Seattle, WA, October 12-14, 2022.

18. [Chaar D](#), [Nguyen K](#), [Wang YZ](#), Ratliff S, Mosley TH, Kardia SLR, **Smith JA**, Zhao W. Identification of ABCA7 SNP-by-CpG interactions associated with cognition in older African Americans. Alzheimer's Association International Conference. San Diego, CA, July 31-August 4, 2022.
19. Shade LMP, Satizabal CL, Glahn D, Mosley T, Heckbert S, Launer L, Yanek LR, Bis JC, **Smith JA**, DeCarli CS, Arnett DK, Psaty BM, Nyquist PA, Mathias RA, Rotter J, Rich S, Blangero J, DeStafano AL, Fardo D, Fornage M, Seshadri S, Sarnowski C, on behalf of the TOPMed Neurocognitive Working Group. Whole genome sequence association analysis of brain MRI measures. Alzheimer's Association International Conference. San Diego, CA, July 31-August 4, 2022.
20. Kurniansyah N, (...35 additional authors including **Smith JA**...), the NHLBI Trans-Omics in Precision Medicine (TOPMed) Consortium, Sofer T. A multi-ethnic polygenic score is associated with hypertension prevalence and progression throughout adulthood. Cohorts for Genomic Epidemiology in Heart and Aging Research (CHARGE) Consortium, Philadelphia, PA, April 27-29, 2022.
21. [Leis AM](#), Mathis MR, Kheterpal S, Zawistowski M, **Smith J**, Karvonen-Guiterrez CA. Varying caridometabolic disease patterns with or without obesity are associated with differential increases in acute kidney injury following joint replacement procedures. International Anesthesia Research Society, Honolulu, HI, March 18-21, 2022.
22. Kurniansyah N, (...35 additional authors including **Smith JA**...), the NHLBI Trans-Omics in Precision Medicine (TOPMed) Consortium, Sofer T. A multi-ethnic polygenic score is associated with hypertension prevalence and progression throughout adulthood. American Heart Association: EPI|Lifestyle Scientific Sessions, Chicago, IL, March 1-4, 2022.
23. Armstrong ND, Irvin MR, Srinivasasainagendra V, **Smith JA**, Kelly TN, Tanika N, Franceschini N, Assimes TL, Beithelshees AL, Montasser ME, Rotter JI, Lange LA, Kelly EE, Rao DC, Arnett DK, on behalf of TOPMed Blood Pressure Working Group. Whole genome sequence analysis of apparent treatment resistant hypertension status in participants from the Trans-omics for Precision Medicine Program. American Heart Association: EPI|Lifestyle Scientific Sessions, Chicago, IL, March 1-4, 2022.
24. [Chaar D](#), [Nguyen K](#), [Wang YZ](#), Ratliff S, Mosley TH, Kardia SLR, **Smith JA**, Zhao W. Associations between ABCA7 SNPs and general cognitive function and modified by proximal CpG sites in older African Americans. University of Michigan, School of Public Health Doctoral Day (Virtual), January 21, 2022.
25. [Li Z](#), Zhao W, [Shang L](#), Mosley TH, Kardia SLR, **Smith JA**, Zhou X. The METRO method improves identification of gene-disease associations through multi-ancestry transcriptome-wide association studies. American Society of Human Genetics (Virtual), October 18-22, 2021.
26. Zhao W, [Carter A](#), Bares C, [Lin L](#), Reed BG, Bowden M, Zucker RA, **Smith JA**, Becker JB. Sex-specific and generational effects of alcohol use and tobacco smoking on epigenetic age acceleration in the Michigan Longitudinal Study. American Society of Human Genetics (Virtual), October 18-22, 2021.
27. Zhao W, **Smith JA**, Yu M, Moorjani P, Ganna A, Dey AB, Lee J, Kardia SLR. Polygenic risk score for general cognitive function is associated with measures of cognition in South Asians from the LASI-DAD Study. Alzheimer's Association International Conference (Virtual), July 26-30, 2021.
28. Zhang Y, Liu X, Wiggins KL, Sofer T, Guo X, DeCarli CS, Glahn DC, Levy D, Nyquist PA, Pitsillides A, Psaty BM, Rodrigue AL, Rotter JI, **Smith JA**, Yanek LR, Seshadri S, Bis JC, Heckbert SR, Fitzpatrick AL, Fornage M, Liu C, Satizabal CL, on behalf of the NHLBI Trans-Omics for

- Precision Medicine (TOPMed) program mtDNA and Neurocognitive Working Groups. Association with mitochondrial DNA copy number with brain MRI and cognitive function in the TOPMed Program. Alzheimer's Association International Conference (Virtual), July 26-30, 2021.
29. Wang X, Kho MJ, Zhao W, Wang YZ, Yu M, Ratliff SM, Mosley TH, **Smith JA**, Kardia SLR. Genetic and epigenetic predictors of cardiovascular disease risk factors in a cohort of African Americans: Genetic risk score, epigenetic age acceleration, and their interaction. American Society of Human Genetics (Virtual), October 27-31, 2020.
  30. Shang L, **Smith JA**, Zhao W, Kho MJ, Turner ST, Mosley TH, Kardia SLR, Zhou X. Genetic determinants of DNA methylation and gene expression in African Americans: An mQTL mapping study in GENOA. American Society of Human Genetics (Virtual), October 27-31, 2020.
  31. Zhao W, Wang YZ, Fang Y, Yu M, **Smith JA**, Sen S. Stress during medical internship is associated with epigenetic age acceleration in medical interns. American Society of Human Genetics (Virtual), October 27-31, 2020.
  32. Zhao W, **Smith JA**, Yu M, Moorjani P, Ganna A, Dey AB, Lee J, Kardia SLR. Common and rare variants in Alzheimer's Disease genes are associated with episodic memory in South Asians from the LASI-DAD Study. Alzheimer's Association International Conference (Virtual), July 27-31, 2020.
  33. Sarnowski C, Satizabal CL, Yanek LR, Bis JC, **Smith JA**, DeCarli CS, Arnett DK, Psaty BM, Nyquist PA, Mathias R, DeStefano AL, Seshadri S, on behalf of the TOPMed Neurocognitive working group. Whole genome sequence association analyses of brain volumes in the TOPMed program. Alzheimer's Association International Conference (Virtual), July 27-31, 2020.
  34. Verdiesen RMG, van der Schwou YT, van Gils CH, Verschuren WMM, Broekmans F, Borges MC, Soares ALG, Lawlor DA, Eliassen AH, Sandler D, Harlow SD, Smith JA, Santoro N, Karlamanga AS, Schoemaker MJ, Swerdlow AJ, Murray A, Ruth KS, Onland-Moret NC. Genome-wide association meta-analysis identifies three novel loci for circulating anti-Mullerian hormone levels in women. European Society of Human Genetics (Virtual), June 6-9, 2020.
  35. Castro-Diehl C, Needham B, **Smith J**, Zhao W, Epel E, Mukherjee B, Sanchez B, Seeman T, Diez Roux A. Prediction of telomere shortening using a genetic risk score: The Multi-Ethnic Study of Atherosclerosis. American Heart Association Epidemiology and Prevention / Lifestyle and Cardiometabolic Health, Phoenix, AZ, March 3-6, 2020.
  36. Zhao W, **Smith JA**, Bielak LF, Ruiz-Narvaez E, Yu M, Hood M, Peyser PA, Kardia SLR, Harlow SD. The association between genetic risk score for age at menarche or menopause and women's reproductive health-related traits in the Study of Women's Health Across the Nation. American Society of Human Genetics (ASHG), Houston, TX, October 15-19, 2019.
  37. Liu X, Wiggins K, Raffield L, Bielak L, Zhao W, **Smith J**, Pitsillides A, Guo X, Heckbert S, Seshadri S, Fitzpatrick AL, Fornage M, Psaty B, Wilson J, Levy D, Rotter J, Bis JC, Satizabal C, Liu C, Representing the TOPMed mtDNA Working Group. Association analysis of mitochondrial DNA copy number and metabolic disease phenotypes. Cohorts for Heart and Aging Research in Epidemiology (CHARGE), St. Louis, MO, June 27-28, 2019.
  38. Zhao W, **Smith JA**, Yu M, Moorjani P, Ganna A, Dey AB, Kardia SLR, Lee J. Association between Alzheimer's Disease risk SNPs and episodic memory in South Asians from the Diagnostic Assessment of Dementia for the Longitudinal Aging Study of India (LASI-DAD). 3rd Annual Michigan Alzheimer's Disease Research Center (MDARC) Beyond Amyloid Research Symposium, Grand Rapids, MI, June 19, 2019.
  39. Christine PJ, **Smith JA**, Mukherjee B, Adar S, Moore KA, Bertoni AG, Gordon-Larsen P, Zhao W, Carnethon MR, Meigs JB, Rasmussen-Torvik LJ, Lange LA, Fornage M, Kardia SLR, Diez Roux

- AV. The interaction of neighborhood environments and genetic risk for type 2 diabetes: Results from MESA and CARDIA. Society for General Internal Medicine, Washington, DC, May 8-11, 2019.
40. Mishra A, Vojinovic D, Suzuki H, Bis J, Zilhao NR, Jian X, ... (30 additional authors including **Smith JA**...), Debette S. The genetic architecture of MRI-derived extremes of cerebral small vessel disease. International Stroke Genetics Consortium Workshop, Cambridge, England, April 11-12, 2019.
  41. Glover S, Sims M, North K, Norris K, **Smith J**, Taylor JY, Singh A, Musani S. Genetic contributions of resilience among African American families from the Jackson Heart Study. American Heart Association Epidemiology and Prevention / Lifestyle and Cardiometabolic Health, Houston, TX, March 5-8, 2019.
  42. He KY, Wang H, Schwander K, **Smith JA**, Kelly TN, Arnett DK, on behalf of the TOPMed Blood Pressure Working Group. Linkage evidence and TOPMed whole genome sequencing multiple genes on chromosome 1 with rare variants associated with blood pressure. American Society of Human Genetics (ASHG). San Diego, CA, October 16-20, 2018.
  43. Kho MJ, Bielak LF, Schwander K, **Smith JA**, Kardina SLR, on behalf of the CHARGE Gene-Lifestyle Interactions Working Group. A multi-ancestry genome-wide study of gene-sodium intake interaction underlying blood pressure variation. Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium, Baltimore, MD, October 10-12, 2018.
  44. Fornage M, Seshadri S, Bis JC, Luciano M, Adams H, **Smith JA**, Ikram MA, Boerwinkle EB, et al. Meta-Analysis of Epigenome-wide Association Studies of Cerebral White Matter Hyperintensities. Alzheimer's Association International Conference (AAIC). Chicago, IL. July 22-26, 2018.
  45. Satizabal CL, Bressler J, Zhao W, Bis JC, Lohman KK, Chauhan G, Yu L, Bernard M, Bennett DA, Paus T, **Smith JA**, Debette S, Ding J, Fitzpatrick A, Seshadri S, Mosley TH, and the Neuro-CHARGE working group. Trans-ethnic, genome-wide study of psychomotor speed. Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium, Rotterdam, Netherlands, April 18-19, 2018.
  46. Mitchell C, Faul J, Ware E, **Smith J**, Notterman D. Constructing and analyzing genetic rare variant burden scores in population-based studies. National Institute on Aging Biomarker Network, Chicago, IL, April 26, 2017.
  47. Ware E, Schmitz LL, Faul JD, Gard A, Mitchell C, **Smith JA**, Zhao W. Methods of measurement: Implications of polygenic scores' estimation methods on gene-by-environment interaction analyses. National Institute on Aging Biomarker Network, Chicago, IL, April 26, 2017.
  48. Do A, Aslibekyan S, Tiwari H, Limdi N, Zhi D, Shah S, Baldrige A, Brody J, Wiggins K, Lange L, Rattfield L, **Smith J**, Zhao W, Ware E, Arnett DK, Irvin R, on behalf of the CHARGE Working group. Genome-Wide Meta-analysis of SNP-by-antihypertensive medication effect on left ventricular traits in African Americans in CHARGE. Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium, New York, NY, Mar 23-24, 2017.
  49. He KY, Wang H, Cade BE, Nandakumar P, Giri A, Ware EB, Haessler J, Liang J, **Smith JA**, Franceschini N, Kooperberg C, Edwards TL, Kardina SLR, Lin X, Chakravarti A, Redline S, Zhu X. Rare variants in Fox-1 homolog A (RFXO1) are protectively associated with blood pressure. American Society of Human Genetics, Vancouver, Canada, October 18-22, 2016.
  50. Zhao W, Ware EB, **Smith JA**, Faul JD, Kardina SLR. Social and psychosocial factors modify the effect of genetic variants on body mass index: A gene environment interaction analysis in a longitudinal setting. Integrating Genetics and Social Sciences, Boulder, CO, October 21-22, 2016.

51. Ware EB, Schmitz L, Faul J, **Smith JA**, Mitchell C, Zhao W, Weir D, Kardia SLR. Establishing best practices: generating polygenic scores in a population-representative cohort. Integrating Genetics and Social Sciences, Boulder, CO, October 21-22, 2016.
52. Lieske JC, Perinpam M, Ware EB, **Smith JA**, Turner ST, Kardia SL. Higher blood glucose is associated with higher urine citrate excretion. 13<sup>th</sup> Annual Symposium on Urolithiasis, Makuhari, Japan, July 19-22, 2016.
53. Brown K, Kardia S, Diez Roux A, Liu Y, **Smith J**, Needham B, Cole S, Mukherjee B, Ware E, Seeman T. Getting “Under the Skin”: Human Social Genomics in the Multi-Ethnic Study of Atherosclerosis, 2016 Epidemiology Congress of the Americas, Society for Epidemiologic Research, Miami, FL, June 21-24, 2016.
54. Ware EB, **Smith JA**, Faul J, Kardia SLR. Ethnic disparities in social and psychosocial factors modify the effect of genes on BMI. American Heart Association Epidemiology and Prevention / Lifestyle and Cardiometabolic Health, Phoenix, AZ, Mar 1-4, 2016.
55. Richard MA, Huan T, Ligthart S, Marioni RE, Brody JA, Sotoodehnia N, Jhun MA, Kardia SLR, **Smith JA**, Irvin MR, Arnett D, Aslibekyan S, Shen J, Baccarelli A, Just AC, Tsai PC, Bell JT, Spector TD, Boerwinkle E, Jia Y, Guo X, Rotter JI, Palmas W, Liu Y, Levy D, Fornage M. Novel genetic loci for blood pressure regulation identified by the analysis of DNA methylation. American Heart Association Epidemiology and Prevention / Lifestyle and Cardiometabolic Health, Phoenix, AZ, Mar 1-4, 2016.
56. Ng MC, Graff M, Justice A, Lu YC, Mudgal P, Liu CT, Rand K, Duan Q, Cade B, Brody J, Wojczynski MK, Feitosa MF, Yanek LR, **Smith JA**, Nalls MA, Chen G, Sha J, Lange L, Vedantam S, Guo X, Chen WM, Chesi A, Haiman C, Loos R, North K. Identification of novel loci associated with anthropometric traits in African Ancestry populations. American Heart Association Epidemiology and Prevention / Lifestyle and Cardiometabolic Health, Phoenix, AZ, Mar 1-4, 2016.
57. Kho M, **Smith JA**, Zhao W, Ware EB, Kardia SLR. Genome-wide meta-analysis of salty taste preference in multi-ancestry cohorts. University of Michigan School of Public Health Doctoral Day, Ann Arbor, MI, Jan 29, 2016.
58. Perinpam M, Ware EB, **Smith JA**, Turner ST, Kardia SLR, Lieske JC. Independent effect of blood glucose level on urinary citrate and pH. Kidney Week 2015, American Society of Nephrology, San Diego, CA, November 3-8, 2015.
59. Perinpam M, Ware EB, **Smith JA**, Turner ST, Kardia SLR, Lieske JC. Key influence of sex on urine volume and osmolality. Kidney Week 2015, American Society of Nephrology, San Diego, CA, November 3-8, 2015.
60. Mitchell C, Faul J, **Smith J**, Zhao W. Investigating social and genetic influences of cognitive decline: Insights from using population-based longitudinal data. Society for Longitudinal and Lifecourse Studies, Dublin, Ireland, October 19-21, 2015.
61. Epstein MP, Broadway A, Cutler D, Duncan R, Moore JL, Ware EB, Jhun MA, Bielak LF, Zhao W, **Smith JA**, Peyser PA, Kardia SLR. A statistical approach for testing pleiotropic effects of rare variants. American Society of Human Genetics, Baltimore, MD, October 6-10, 2015.
62. Liu C, Kraja AT, **Smith JA**, Brody JA, Franceschini N, Morrison AC, Lu Y, Weiss S, (...20 additional authors...), Levy D, Chasman D, on behalf of the CHARGE Plus Exome Chip Blood Pressure Consortium. Association of mitochondrial and nuclear oxidative phosphorylation variants with blood pressure traits. Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium, Jackson, MS. July 1-2, 2015.

63. Epstein MP, Ware E, Jhun MA, Bielak LF, Zhao W, **Smith J**, Peyser PA, Kardia SLR, Satten GA. Statistical approaches for rare-variant association testing in affected sibships. American Society of Human Genetics. San Diego, CA. October 18-22, 2014.
64. Ng MCY, Graff M, Justice A, Lu K, Mudgal P, Rand K, Li Y, Cade BE, Brody J, Wojczynski MK, Yanek LR, **Smith J**, (...15 additional authors...), Loos RJF, North KE, for the African Ancestry Anthropometry Genetic Consortium. Genome-wide association of 44,714 subjects of African Ancestry imputed to the 1000 Genomes reference panel identifies two novel loci influencing body mass index. American Society of Human Genetics, San Diego, CA, October 18-22, 2014.
65. Liu C, Kraja AT, **Smith JA**, Brody J, Franceschini N, Morrison AC, Lu K, Loos R, Weiss S, Auer PL, Guo X, Chu AY, Jakobsdottir J, Bis JC, Zhao W, (...13 additional authors ...), Levy D, on behalf of the CHARGE Plus Exome Chip Blood Pressure Consortium. Novel genetic determinants identified for blood pressure traits using exome arrays in the CHARGE Consortium. American Society of Human Genetics, San Diego, CA, October 18-22, 2014.
66. Satizabal CL, **Smith JA**, Bis J, Yu L, Beiser A, Zhao W, Rotter JI, Buchman AS, Au R, Turner ST, Longstreth WT, Kardia SLR, Psaty BM, Bennett DA, Fitzpatrick AL, Seshadri S, Mosley T, Neuro-CHARGE consortium. A genome wide association study on fine motor function. American Society of Human Genetics, San Diego, CA, October 18-22, 2014.
67. Schrager JH, Ware EB, **Smith JA**, Zhao W, Kardia SLR. RE-1 silencing transcription factor gene variation and gene expression in the Genetic Epidemiology Network of Arteriopathy study. University of Michigan School of Public Health Masters Student Poster Day, Ann Arbor, MI, October 17, 2014.
68. Satizabal CL, **Smith JA**, Yu L, Bis J, Fitzpatrick A, Bennett D, Seshadri S, Mosley T. A genome wide association study on fine motor function. 139<sup>th</sup> Annual American Neurological Association, Baltimore, MD, October 11-14, 2014.
69. Needham B, **Smith J**, Diez Roux A, Kardia S, Liu Y, Zhao W, Wang S, Mukherjee B, Register T, Seeman T, Shively C. Childhood SES and DNA methylation in genes related to stress reactivity and inflammation: The Multi-Ethnic Study of Atherosclerosis. International Conference on Social Stress Research, Vancouver, BC, Canada, June 7-9, 2014.
70. Canales B, **Smith J**, Zhao W, Curhan G, Weiner D, Leiske J. Single nucleotide polymorphisms in three genes contribute to urine pH variation in the general population. American Urological Association, San Diego, CA, May 4-8, 2014.
71. Canales B, **Smith J**, Zhao W, Curhan GC, Weiner D, Lieske JC. Do single nucleotide polymorphisms contribute to urine pH variation? A genetic association study. Kidney Week 2013, American Society of Nephrology, Atlanta, GA, November 5-10, 2013.
72. Franceschini N, Fox E, Zhang Z, Edwards TL, Nalls MA, Sung YJ, Tayo BO, Sun YV, Gottesman O, Adeyemo A, Johnson AD, Young JH, Rice K, Duan Q, Cheng F, Li Y, Tang H, Fornage M, Keene KL, Andrews JS, **Smith JA**, Faul JD, (... 78 additional authors ...), Chakravarti A, Reiner AP, Levy D, Keating BJ, Zhu X. Genome-wide association analysis of blood pressure traits in nearly 30,000 African Ancestry individuals reveals a common set of associated genes in African and non-African populations. American Society of Human Genetics. Boston, MA. October 22-26, 2013.
73. Bomotti S, **Smith JA**, Lazarus AL, Mosley TH, Jr., Turner ST, Kardia SLR. An epigenetic intersection of age, inflammation, and kidney function. University of Michigan School of Public Health Masters Student Poster Day. Ann Arbor, MI. October 26, 2012.

74. Gao CW, **Smith JA**, Lazarus AL, Kardia SLR. The effect of epigenetic predictors on HDL-cholesterol in African Americans. University of Michigan School of Public Health Masters Student Poster Day. Ann Arbor, MI. October 26, 2012.
75. Lazarus AL, **Smith JA**, Mosley TH, Jr., Turner ST, Kardia SLR. The role of aging in the heritability of epigenomic markers. International Genetic Epidemiology Society, Stevenson, WA, October 18-20, 2012. *Genetic Epidemiology* 36(7): 722. *Nominated for Williams Award.*
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