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EDUCATION

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**
Interdepartmental Concentration in Public Health Genetics
University of Michigan

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

ACADEMIC APPOINTMENTS

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

2016-Present 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

2016-Present Research Assistant Professor

CENTER AND PROGRAM AFFILIATIONS

2017-Present **Faculty Affiliate**, Genome Sciences Training Program (T32)
School of Public Health, University of Michigan, Ann Arbor, MI

2016-Present **Faculty Affiliate**, Center for Social Epidemiology and Population Health (CSEPH)
School of Public Health, University of Michigan, Ann Arbor, MI

2015-Present **Investigator**, TOPMed: Trans-Omics for Precision Medicine Program
National Heart, Lung and Blood Institute, National Institutes of Health

2015-Present **Associated Faculty Member**, Center for Midlife Science
School of Public Health, University of Michigan, Ann Arbor, MI

2014-Present **Affiliated Scientist**, Michigan Center on the Demography of Aging (MiCDA)
Institute for Social Research, University of Michigan, Ann Arbor, MI

2014-Present **Faculty Member**, Population, Neurodevelopment, and Genetics (PNG) Program
Institute for Social Research, University of Michigan, Ann Arbor, MI

2012-Present **Steering Committee Member**, Center for Integrative Approaches to Health Disparities
School of Public Health, University of Michigan, Ann Arbor, MI

2012-Present **Associated Faculty Member**, Certificate Program in Public Health Genetics (CPHG)
School of Public Health, University of Michigan, Ann Arbor, MI

RESEARCH GRANTS

Awarded Grants

R01 AG055406 NIH/NIA	Ware/Bakulski (MPIs), Smith (Co-I) \$450,000 (Annual Direct Costs)	09/15/17 – 05/31/21
Characterizing Disparities in Late-Onset Alzheimer's Disease Risk through Polygenic Risk and Epidemiologic Factors in the Health and Retirement Study		
R01 MD011721 NIH/NIMHD	Needham/Rehkopf (MPIs), Smith (Co-I) \$500,000 (Annual Direct Costs)	08/16/17 – 05/31/22
Race/Ethnicity, DNA Methylation, and Disparities in Cardiovascular Mortality: NHANES 1999-2002		
R25 AG053227 NIH/NIA	Faul/Mitchell/Kardia (MPIs), Smith (Co-I) \$125,000 (Annual Direct Costs)	09/15/16 – 04/30/21
Genomic Analysis for Social-Behavioral Scientists		
U01 AG017719 NIH/NIA	Harlow (PI), Smith (Co-I) \$914,234 (Annual Direct Costs)	09/15/16 – 05/31/21
SWAN Repository IV		
R01 HL133221 NIH/NHLBI	Smith (PI) \$1,636,482 (Total Direct Costs)	07/01/16 – 04/30/20
Epigenetics of Arteriosclerosis in African American Hypertensive Sibships		
R01 HL119443 NIH/NHLBI	Kardia (PI), Smith (Co-I) \$700,000 (Annual Direct Costs)	09/01/14 – 08/31/18
Genetic Mechanisms of Arteriosclerosis in Hypertensive Sibships		
R01 HL118305 NIH/NHLBI	Rao (PI), Smith (Co-I) \$2,061,405 (Annual Direct Costs)	12/01/13 – 11/30/18
Multi-Ethnic Study of Gene-Lifestyle Interactions in Cardiovascular Traits		
P60 MD002249 NIH/NIMHD	Mendes de Leon/Diez Roux (PIs), Smith (Co-I) \$1,238,326 (Annual Direct Costs)	09/01/12 – 08/31/17 (NCE)
Michigan Center for Integrative Approaches to Health Disparities (CIAHD) Social and Biologic Predictors of Cardiovascular Risk among African Americans (Diez Roux, R01 PI)		

U01 AG009740 Weir (PI), Smith (Co-I) 01/01/11 – 12/31/17
NIH/NIA \$13,173,570 (Annual Direct Costs)
Health and Retirement Study Years 23-28

Completed Grants

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

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

R03 AG046389 Kardia (PI), Smith (Co-I) 09/01/13 – 08/31/16
NIH/NIA \$200,000 (Total Direct Costs)
Genetic and Psychosocial Predictors of Blood Pressure and Body Mass Index

R01 HL086694 Chakravarti (PI), Smith (Co-I) 08/05/11 – 05/30/14
NIH/NHLBI
Genome-Wide Association Analysis in Essential Hypertension

RC4 AG039029 Weir (PI), Smith (Co-I) 09/30/10 – 08/31/14
NIH/NIA
Expanding a National Resource for Genetic Research in Behavioral and Health Science

R01 HL101161 Diez Roux/Needham (PIs), Smith (Co-I) 06/15/10 – 3/31/15
NIH/NHLBI
Stress, Gene-Environment Interaction and Cardiovascular Disease

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
NIH/NCMHD
Michigan Center for Integrative Approaches to Health Disparities (CIAHD)
Genetic and Social Factors in Blood Pressure Control in Hypertensives (R01)
Role: Research Area Specialist Lead

R01 HL087660 Kardia (PI) 04/01/07 – 03/31/12
NIH/NHLBI
Genomic Predictors of Arteriosclerosis in Hypertensives
Role: Research Area Specialist Lead

R01 NS041558 Turner (PI) 08/05/09 – 07/31/13
NIH/NINDS
Genetics of Microangiopathic Brain Injury
Role: Graduate Student Research Assistant

U01 HL72524 Arnett (PI) 09/30/02 – 08/31/06
NIH/NHLBI
Genetic and Environmental Determinants of Triglycerides (GOLDN)
Role: Graduate Student Research Assistant

COURSES TAUGHT

- Fall, 2012-
Present **Instructor**, Genetics in Public Health (EPID 515), Department of Epidemiology, University of Michigan, Ann Arbor, MI
This course provides an in-depth examination of major topics in public health genetics including the fundamentals of population genetics, newborn screening diseases and practices, and the genetics of common chronic diseases. It also introduces topics such as the ethnical/legal/social issues surrounding genetic testing, epigenetics, and genetic association studies.
- Winter, 2009 **Graduate Student Instructor**, Genomics in Epidemiology (EPID 516), Department of Epidemiology, University of Michigan, Ann Arbor, MI
- Fall, 2008 **Graduate Student Instructor**, Introduction to Epidemiology (EPID 600), Department of Epidemiology, University of Michigan, Ann Arbor, MI
- Summer, 2008 **Graduate Student Instructor**, Fundamentals of Biostatistics (EPID 701), Department of Epidemiology, University of Michigan, Ann Arbor, MI

GUEST LECTURES

- Nov. 07, 2017 “Replication of findings in epidemiology: Historical perspective, challenges, and strategies,” *Principals and Methods of Epidemiology* (EPID 601), University of Michigan, Ann Arbor, MI
- Mar. 20, 2017 “Overview and modern applications of human genetics, genomics, and beyond,” *Molecular Epidemiology* (EPID 582), University of Michigan, Ann Arbor, MI
- Feb. 14, 2017 “Responsible authorship and publications: Peer review,” *Responsible Conduct of Research and Scholarship* (EPID 889), University of Michigan, Ann Arbor, MI
- Mar. 14, 2016 “Overview and modern applications of human genetics, genomics, and beyond,” *Molecular Epidemiology* (EPID 582), University of Michigan, Ann Arbor, MI
- Nov. 22, 2013 “Epigenetics, gene-by-environment interactions, and social epidemiology,” *Social Epidemiology* (EPID 514), University of Michigan, Ann Arbor, MI
- Jun 14, 2010 “Genetics in nursing,” *Health Promotion and Risk Reduction for Individuals and Families* (Nursing 334), University of Michigan, Ann Arbor, MI
- Nov. 24, 2009 “Internet resources for genetic epidemiology,” *Genomics in Epidemiology* (EPID 516), University of Michigan, Ann Arbor, MI
- Jun 24, 2008 “Genetics in nursing,” *Health Promotion and Risk Reduction for Individuals and Families* (Nursing 334), University of Michigan, Ann Arbor, MI
- Nov. 28, 2007 “Epidemiology of colorectal cancer,” *Genetics in Public Health* (EPID 515), University of Michigan, Ann Arbor, MI
- Oct. 24, 2007 “Neuroepidemiology of Autism Spectrum Disorders,” *Neuroepidemiology* (EPID 616), University of Michigan, Ann Arbor, MI
- Oct 3, 2007 “Genetic testing in the genomic era: Social and policy implications,” *Genetics in Public Health* (EPID 515), University of Michigan, Ann Arbor, MI
- Jun 19, 2007 “Genetics in nursing,” *Health Promotion and Risk Reduction for Individuals and Families* (Nursing 334), University of Michigan, Ann Arbor, MI

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- Dec. 4, 2006 “Asthma pharmacogenomics,” *Genetics in Public Health* (EPID 515), University of Michigan, Ann Arbor, MI
- Sep. 27, 2006 “Newborn screening policies and practices,” *Genetics in Public Health* (EPID 515), University of Michigan, Ann Arbor, MI

STUDENT SUPERVISION

Doctoral Dissertation Chair

2017-Present Farah Ammous (Epidemiology)

Doctoral Dissertation Committee Member

- 2017-Present Wenchao Li (Epidemiology)
Socioeconomic status, food intake, and metabolic dysregulation in an aging population
- 2015-Present Minjung Kho (Epidemiology)
The genetics of sodium intake and its role in blood pressure variation in multi-ethnic populations
- 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 Wu (Epidemiology)
The genetics of blood pressure and body mass index: the tale of two major risk factors

Masters Thesis Advisor

- 2017-2018 Jeremy Raisky (Epidemiology)
- 2017-2018 Yu Zhao (Epidemiology)

- 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

AWARDS

- 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

National

- 2017-Present Grant Reviewer (ad hoc), *Social Sciences and Population Health Sciences Study Section (SSPS) B*, National Institutes of Health (NIH)
- 2016-Present Grant Reviewer, *Peer Review Committee for Genomics and Translational Biology – Observational Epidemiology (Populations)*, American Heart Association (AHA)
- 2016-Present Abstract Reviewer (ad-hoc), *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)

School/Department

- 2016-Present Member, *Research Committee*, University of Michigan Department of Epidemiology
- 2016-2017 Chair, *Planning Committee of the 20th Anniversary Seminar Series for the Certificate Program in Public Health Genetics*, University of Michigan School of Public Health
- 2012-2016 Member, *Admissions Committee*, University of Michigan Department of Epidemiology

- 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

PROFESSIONAL AFFILIATIONS

American Heart Association (*Council on Functional Genomics and Translational Biology*)
American Society of Human Genetics
International Genetic Epidemiology Society
Society for Epidemiologic Research
American Public Health Association (*Epidemiology Section; Aging and Public Health Section; Genomics Forum*)
Population Association of America

EDITORIAL SERVICE

- 2016-Present Guest Editor, *International Journal of Environmental Research and Public Health* special issue, "Gene-Environment Interactions and Disease."

AD-HOC SCIENTIFIC JOURNAL REVIEW

Age and Ageing
BMC Medical Genetics
Brain Disorders and Therapy
Cardiovascular Diabetology
Circulation: Cardiovascular Genetics
International Journal of Molecular Sciences
Journals of Gerontology: Medical Sciences
The Lancet
Neurology
Neuroepidemiology
The Pharmacogenomics Journal
PLoS One
Rubriq peer review service
Scientific Reports

PUBLICATIONS (underlined author is a student/mentee)

Full publication list:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/1Bm0Z93OkAG/bibliography/40779637/public/?sort=date&direction=ascending>

Peer-Reviewed Publications

1. Zhao W, Ware EB, He Z, Kardia SLR, Faul JD, **Smith JA**. (2017) Social and psychosocial factors modify the effect of genetic variants on body mass index: A gene environment interaction analysis in a longitudinal setting. *International Journal of Environmental Research in Public Health* [E-pub ahead of print].
2. Wright ML, Ware EB, **Smith JA**, Kardia SLR, Taylor JY. Joint influence of SNPs and DNA methylation on lipids in African Americans from hypertensive sibships. *Biological Research for Nursing* (**Accepted**).
3. Richard MA, Huan T, Lighthart S, Gondalia R, (... 55 additional authors including **Smith JA**...), Fornage M. DNA methylation analysis identifies novel loci for blood pressure regulation. *American Journal of Human Genetics* (**Accepted**).
4. He Z, Lee S, Zhang M, **Smith JA**, Guo X, Palmas W, Kardia SLR, Ionita-Laza I, Mukherjee B. Rare-variant association tests in longitudinal studies, with an application to the Multi-Ethnic Study of Atherosclerosis (MESA). *Genetic Epidemiology* (**Accepted**).
5. Canales B,* **Smith JA**,* Weiner ID, Ware EB, Zhao W, Kardia SLR, Curhan GC, Turner ST, Perinpam M, Lieske JC. (2017) Polymorphisms in renal ammonia metabolism genes correlate with 24 hour urine pH. *Kidney International Reports* [E-pub ahead of print].
*Starred authors contributed equally to this work
6. **Smith JA**, Zhao W, Wang X, Ratliff SM, Mukherjee B, Kardia SLR, Liu Y, Diez Roux AV, Needham BL. (2017) Neighborhood characteristics influence DNA methylation of genes involved in stress response and inflammation: The Multi-Ethnic Study of Atherosclerosis. *Epigenetics* [E-Pub ahead of print]. PMID: 28678593.
7. Jhun MA, **Smith JA**, Ware EB, Kardia SLR, Mosley TH Jr, Turner ST, Peyser PA, Park SK. (2017) Modeling the causal role of DNA methylation in the association between cigarette smoking and inflammation in African Americans: A 2-step epigenetic Mendelian randomization study. *American Journal of Epidemiology* [E-pub ahead of print].
8. He Z, Zhang M, Lee S, **Smith JA**, Kardia SLR, Diez Roux AV, Mukherjee B. (2016) Set-based tests for gene-environment interaction in longitudinal studies. *Journal of the American Statistical Association* [E-pub ahead of print].
9. Perinpam M, Ware EB, **Smith JA**, Turner ST, Kardia SLR, Lieske JC. (2017) Association of urinary citrate excretion, pH, and net gastrointestinal alkali absorption with diet, diuretic use, and blood glucose concentration. *Physiological Reports* 5(19):e13411. PMID: 29038354.
10. Kraja AT, Cook JP, Warren HR, Surendran P, Liu C, Evangelou E, Manning AK, Grarup N, Drenos F, (...79 additional authors including Smith JA...), Munroe PB, Howson JMM, on behalf of the CHARGE Exome BP, CHD Exome+, Exome BP, GoT2ED:T3DGenes, and the UK Biobank Cardio-metabolic Traits Consortium Blood Pressure Working Groups. (2017) New blood pressure-associated loci identified in meta-analyses of 475,000 individuals. *Circulation: Cardiovascular Genetics* 10(5):e001778. PMID: 29030403.

11. Joshi PK, Pirastu N, Kentistou KA, Fischer K, Hofer E, Schraut KE, Clark DW, Nutile T, (...102 additional authors including **Smith JA**...), Wilson JF. (2017) Genome-wide meta-analysis associates *HLA-DQA1/DRB1* and *LPA* and lifestyle factors with human longevity. *Nature Communications* 8(1):910. PMID: 29030599.
12. Neumann A, Direk N, Crawford A, Mirza S, Adams H, Bolton J, Hayward C, Strachan D, Payne EK, **Smith JA**, Milaneschi Y, Penninx B, Hottenga J, de Geus E, Oldehinkel A, van der Most P, deRijke Y, Walker BR, Tiemeier H. (2017) The low single nucleotide polymorphism heritability of plasma and saliva cortisol levels. *Psychoneuroendocrinology* 85:88-95. PMID: 28843169.
13. Liang J, Le TH, Velez Edwards DR, Tayo BO, Gaulton KJ, **Smith JA**, Lu Y, Jensen RA, Chen G, Yanek LR, Schwander K, (...66 additional authors...), Zhu X, Franceschini N. (2017) Single-trait and multi-trait genome-wide association analyses identify novel loci for blood pressure in African-ancestry populations. *PLoS Genetics* 13(5):e1006728. PMID: 28498854; PMCID: PMC5446189.
14. Ng MCY, Graff M, Lu Y, Justice A, Mudgal P, Liu CT, Young K, Agler C, Yanek LR, Feitosa MF, Wojczynski MK, Rand K, (... 94 additional authors including **Smith JA**...), Haiman C, Loos RJF, North K. (2017) Discovery and fine-mapping of adiposity loci using high density imputation of genome-wide association studies in individuals of African ancestry: African Ancestry Anthropometry Genetics Consortium *PLoS Genetics* 13(4):e1006719. PMID: 28430825; PMCID: PMC5419579.
15. Justice AE, Winkler TW, Feitosa MF, Graff M, Fisher VA, Young K, Barata L, (...263 additional authors, including **Smith JA**...), Liu CT, Borecki IB, North KE, Cupples LA. (2017) Genome-wide meta-analysis of 241,258 adults accounting for smoking behavior identifies novel loci for obesity traits. *Nature Communications* 8:14977. PMID: 28443625; PMCID: PMC5414044.
16. Graff M, Scott R, Justice AE, Young KL, Feitosa MF, Barata L, Winkler TW, Chu A, Mahajan A, (... 267 additional authors including **Smith JA** ...), Cupples LA, Loos RJF, Kilpelainen TO. (2017) Genome-wide physical activity interactions in adiposity – a meta-analysis of 200,452 adults. *PLoS Genetics* 13(4):e1006528. PMID: 28448500; PMCID: PMC5407576.
17. 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. (2017) Rare variants in fox-1 homolog A (RBFox1) are protectively associated with blood pressure. *PLoS Genetics* 13(3):e1006678. PMID: 28346479; PMCID: PMC5386302.
18. Marouli E, Graff M, Medina-Gomez C, Lo KS, Wood AR, Kjaer TR, Fine RS, Lu Y, Schurmann C, (... 362 additional authors including **Smith JA** ...), Deloukas P, Lettre G. (2017) Rare and low-frequency coding variants alter human adult height. *Nature* 542(7640):186-90. PMID: 28146470; PMCID: PMC5302847.
19. Ben-Avraham D, Karasik D, Verghese J, Lunetta KL, **Smith JA**, Eicher JA, Rotem V, Deleen J, (...58 additional authors...), Murabito JM, Atzmon G. (2017) The complex genetics of gait speed: genome-wide meta-analysis approach. *Aging* 9(1):209-246. PMID: 28077804; PMCID: PMC5310665.
20. Li ML, Li Y, Weeks O, Mijatovic V, Teumer A, Huffman JE, Tromp G, Fuchsberger CS, (...139 additional authors including **Smith JA**...), Fox CS, Franceschini NF, Goessling W, Kottgen A, Chu AY. (2017) SOS2 and ACP1 loci identified through large-scale exome chip analysis regulate kidney development and function. *Journal of the American Society of Nephrology* 28(3):981-94. PMID: 27920155; PMCID: PMC5328154.
21. Ligthart S, Marzi C, Aslibekyan S, Mendelson MM, Conneely KN, Tanaka T, Colicino E, Waite LL, (...69 additional authors including **Smith JA**...), Arnett D, Baccarelli A, Benjamin E, Dehghan A. (2016) DNA methylation signatures of chronic low-grade inflammation are associated with complex diseases. *Genome Biology* 17(1):255. PMID: 27955697; PMCID: PMC5151130.

22. Direk N, Williams S, **Smith JA**, Ripke S, Amare AT, Amin N, Bennett DA, Blackwood DHR, Boomsma D, (... 77 additional authors ...), Tiemeier H, Sullivan PF. (2016) An analysis of two genome-wide association meta-analyses identifies a new locus for broad depression phenotype. *Biological Psychiatry* 82(5):322-329. PMID: 28049566; PMCID: PMC5462867.
23. Barban N, Jansen R, de Vlaming R, Vaez A, Mandemakers J, Tropf FC, Shen X, Wilson JF, Chasman DI, (... 246 additional authors including **Smith JA** ...), Benjamin DJ, Cesarini D, Koellinger PD, den Hoed M, Snieder H, Mills M. (2016) Genome-wide analysis identifies 12 loci influencing human reproductive behavior. *Nature Genetics* 48(12):1462-72. PMID: 27798627.
24. Joehanes R*, Just AC*, Marioni R*, Pilling LC*, Reynolds LM*, Mandaviya PR*, Guan W*, Xu T*, Elks C*, Aslibekyan S*, Moreno-Macias H*, **Smith JA***, Brody JA*, Dhingra R*, (... 64 additional authors ...), Waldenberger M, Deary I, Fornage M, Levy D, London SJ. (2016) Epigenetic signatures of cigarette smoking. *Circulation: Cardiovascular Genetics* 9(5):436-77. PMID: 27651444; PMCID: PMC5267325.
*Starred authors contributed equally to this work
25. Liu C*, Kraja AT*, **Smith JA***, Brody JA*, Franceschini N*, Bis JC, Rice K, Morrison AC, Lu Y, Weiss S, Guo X, (... 65 additional authors...), Ehret G, Newton-Cheh C, Levy D, Chasman DI. (2016) Meta-analysis identifies common and rare variants influencing blood pressure and overlapping with metabolic loci. *Nature Genetics* 48(10):1162-70. PMID: 27618448; PMCID: PMC5320952.
*Starred authors contributed equally to this work
26. Scott RA, Freitag DF, Li L, Chu AY, Grarup N, Stancakova A, Chen Y, Varga T, Yaghoobkar H, Burns SM, Luan J, Zhao JH, Willems SM, Wessel J, (... 121 additional authors including **Smith JA**...), Deloukas P, Danesh J, Goodarzi MO, Kathiresan S, Meigs JB, Ehm MG, Wareham NJ, Waterworth DM. (2016) A genomic approach to therapeutic target validation identifies a glucose-lowering GLP1R variant protective for coronary heart disease. *Science Translational Medicine* 8(341):341ra76. PMID: 27252175; PMCID: PMC5219001.
27. Weiss A, Baselmans BML, Hofer E, Yang J, Okbay A, Lind PE, Miller MB, Nolte I, Zhao W, (... 23 additional authors including **Smith JA**...), Bartels M, Luciano M. (2016) Personality polygenes, positive affect, and life satisfaction. *Twin Research and Human Genetics* 19(5):407-17. PMID: 27546527; PMCID: PMC5125297.
28. Liu CT, Raghavan S, Maruthur N, Kabagambe EK, Hong J, Ng MCY, Hivert MF, Lu Y, ... (106 additional authors including **Smith JA**...), Rotter J, Morris AP, Meigs JB. (2016) Trans-ethnic meta-analysis and functional annotation illuminates the genetic architecture of fasting glucose and insulin. *American Journal of Human Genetics* 99(1):56-75. PMID: 27321945; PMCID: PMC5005440.
29. Ko Y-A, Mukherjee B, **Smith J**, Allison M, Kardia S, Diez Roux A. (2016) Classification and clustering methods for multiple environmental factors in gene-environment interaction analysis – application to the Multi-Ethnic Study of Atherosclerosis. *Epidemiology* 27(6):870-8. PMID: 27479650; PMCID: PMC5039086.
30. Matteini AM, Tanaka T, Karasik D, Atzmon G, Chou Wen-Chi, Eicher JD, Johnson AD, Arnold AM, Callisaya ML, Davies G, Evans DS, Holtfreter B, Lohman K, Lunetta KL, Mangino M, Smith AV, **Smith JA**, (...45 additional authors...), Newman AB, Walston JD, Kiel DP, Murabito JM. (2016) GWAS analysis of hand grip and lower body strength in older adults in the CHARGE Consortium. *Aging Cell* 15(5):792-800. PMID: 27325353; PMCID: PMC5013019.
31. Okbay A, Beauchamp JP, Fontana MA, Lee JJ, Pers TH, Rietveld CA, Turley P, Chyen GB, Emilsson V, Meddens FW, Oskarsson S, Pickrell JK, Thom K, Timshel P, de Vlaming R, (... 222 additional authors including **Smith JA** ...), Visscher PM, Esko T, Koellinger PD, Benjamin DJ.

- (2016) Genome-wide association study identifies 74 loci associated with educational attainment. *Nature* 533(7804):539-42. PMID: 27225129; PMCID: PMC4883595.
32. Sung YJ, Winkler TW, Manning AK, (...48 additional authors including **Smith JA...**), Kardia SLR, Zhu X, Rice K, Borecki IB, Rau DC, Gauderman WJ, Cupples LA. (2016) An empirical comparison of joint and stratified frameworks for studying GxE interactions: systolic blood pressure and smoking in the CHARGE Gene-Lifestyle interactions working group. *Genetic Epidemiology* 40(5):404-15. PMID: 27230302; PMCID: PMC4911246.
 33. Okbay A, Baselmans BML, De Neve JE, Turley P, Nivard MG, Fontana MA, Meddens SFW, Linner RK, Rietveld CA, (...157 additional authors including **Smith, JA...**), Krueger RF, Beauchamp JP, Koellinger PD, Benjamin DJ, Bartels M, Cesarini D. (2016) Genetic variants associated with subjective well-being, depressive symptoms and neuroticism identified through genome-wide analyses. *Nature Genetics* 48(6):624-33. PMID: 27089181; PMCID: PMC4884152.
 34. Faul JD, Mitchell CM, **Smith JA**, Zhao W. (2016) Estimating telomere length heritability in an unrelated sample of adults – Is heritability of telomere length modified by lifecourse socioeconomic status? *Biodemography and Social Biology* 62(1):73-86. PMID: 27050034; PMCID: PMC117361.
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Invited Reviews and Editorials

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.

Book Chapters

1. **Smith JA**, Mosley TH, Turner ST, Kardia SLR. (2012) "Shared genetic effects among measures of cognitive function and leukoaraiosis," in *Brain Injury – Pathogenesis, Monitoring, Recovery and Management*. Editor: Amit Agrawal. InTech. ISBN 978-953-51-0265-6. Available from: <http://www.intechopen.com/books/brain-injury-pathogenesis-monitoring-recovery-and-management/shared-genetic-effects-among-measures-of-cognitive-function-and-leukoaraiosis>
2. 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. **Smith JA**, Zhao W, Yasutake K, August C, Ratliff SM, Faul JD, Boerwinkle E, Chakravarti A, Diez Roux AV, Gao Y, Griswold ME, Heiss G, Kardia SLR, Morrison AC, Musani SK, Mwasongwe S, North KE, Rose KM, Sims M, Sun YV, Weir DR, Needham BL. Gene-by-psychosocial factor interactions influence diastolic blood pressure in European and African ancestry populations: Meta-analysis of four cohort studies.
2. Mitchell C, Faul JD, Kho M, Zhao W, Hillman TJ, **Smith JA**. Genetic burden and early life socioeconomic status jointly influence memory performance and decline in older adults.

3. [Liu J](#), Zhao W, Ware EB, Turner ST, Mosley TH, **Smith JA**. DNA methylation in the *APOE* genomic region is associated with cognitive function in African Americans.
4. Marioni RE, McRae AF, Colicino E, Hannon E, Li S, Prada D, **Smith JA**, Tsai PC, Vojinovic D, (... 33 additional authors...), Deary I. Meta-analysis of epigenome-wide association studies of cognitive abilities.
5. Rudra P, Broadaway KA, Ware EB, Jhun MA, Bielak LF, Zhao W, **Smith JA**, Peyser PA, Kardia SLR, Epstein MP, Ghosh D. Testing cross-phenotype effects of rare variants in longitudinal studies of complex traits.
6. Haljas K, Amare AT, Alizadeh BZ, Hsu Y-H, Mosley T, Newman A, Murabito J, Tiemeier H, Tanaka T, van Duijin C, Ding J, Llewellyn D, Bennett DA, Terracciano A, Launer L, Baumert J, Cornelis M, Teumer A, Grabe H, Kardia S, Ware E, **Smith JA**, Snieder H, Eriksson JF, Groop L, Raikonen K, Lahti J. Bivariate genome-wide association study of depressive symptoms with type 2 diabetes and quantitative glyceic traits.
7. 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.
8. Do AN, Zhao W, Srinivasasainagendra V, Aslibekyan S, Tiwari H, Limdi N, Shas S, Zhi D, Broeckel U, Gu C, Rao DC, Schwander K, **Smith JA**, Kardia S, Arnett D, Irvin MR. Whole exome analyses for rare variant impact on left ventricular traits in African American participants from the HyperGEN and GENOA studies.
9. Ward-Caviness CK, de Vries PS, Wiggins KL, Huffman JE, Yanek LR, Bielak LF, Giulianini F, Guo X, Kleber M, Kacprowski T, (...43 additional authors including **Smith JA**...), Morrison A. Causal associations between fibrinogen and incident coronary heart disease: a meta-analysis of Mendelian Randomization studies.
10. Liu DJ, Brazel DM, Turcot V, Zhan X, Gong J, Bertelsen S, Chao YL, Faul JD, Haessler J, (...45 additional authors including **Smith JA**...), Abecasis GR, Vrieze S. Exome chip meta-analysis elucidates the genetic architecture of rare coding variants in smoking and drinking behavior.
11. Jian X, Satizabal CL, Smith AV, Wittfeld K, Bis JC, **Smith JA**, Fang-Chi H, Hofer E, (... 76 additional authors...), Fornage M for the neuroCHARGE Working Group. Exome chip analysis identified rare variants in MRPL38 and a novel locus on chr2q33 for white matter hyperintensities.
12. Davies G, Lam M, Harris SE, Trampush JW, Luciano M, Hill WD, Hagenaars SK, Ritchie SJ, (... 210 additional authors including **Smith JA** ...), Seshadri S, Mosley TH Jr., Bressler J, Lencz T, Deary IJ. Ninety-nine independent loci influencing general cognitive function include genes associated with brain health and structure.
13. Wang H, Nandakumar P, Tekola-Ayele F, Tayo B, Ware E, Gu CC, Lu Y, Yao J, Zhao W, **Smith JA**, Hellwege J, Guo X, Edwards T, Loos R, Fornage M, Rotimi C, Kardia SLR, Cooper R, Rao DC, Morrison A, Ehret G, Chakravarti A, Zhu X. Rare variants within multiple genes at a chromosome 1q locus contributes to blood pressure variation: the combined use of linkage-association tests.
14. Merino J, Dashti HS, Li SX, Justice AE, Graff M, Papoutsakis C, Smith C, (... 82 additional authors including Smith JA...), Chasman DI, Tanaka T, Chu AY. Genome-Wide Meta-Analysis of Macronutrient Intake Identifies Two Novel Loci: Cohorts for Heart and Aging Research in Genomic Epidemiology.

PRESENTATIONS

Professional Meetings

1. **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. *Oral and poster presentation*. Integrating Genetics and Social Sciences Conference, Boulder, CO, October 19-20, 2017.
2. **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. *Oral presentation*. Society for Epidemiologic Research Annual Meeting, Seattle, WA, June 20-23, 2017.
3. Ware EB, Schmitz LL, Faul JD, Gard A, Mitchell C, **Smith JA**, Zhao W. Implications of polygenic scores' estimation methods on gene-by-environment interaction analyses. *Poster presentation*. Society for Epidemiologic Research Annual Meeting, Seattle, WA, June 20-23, 2017.
4. 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 Annual Meeting, Seattle, WA, June 20-23, 2017.
5. 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 Annual Meeting, Chicago, IL, April 27-29, 2017.
6. **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. *Oral presentation*. National Institute on Aging Biomarker Network Meeting, Chicago, IL, April 26, 2017.
7. 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 Meeting, Chicago, IL, April 26, 2017.
8. 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 Meeting, Chicago, IL, April 26, 2017.
9. 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. CHARGE Investigator Meeting, New York, NY, Mar 23-24, 2017.
10. 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.
11. 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.
12. He KY, Wang H, Cade BE, Nandakumar P, Giri A, Ware EB, Haessler J, Liang J, **Smith JA**, Franceschini N, Kooperberg C, Edwards TL, Kardia SLR, Lin X, Chakravarti A, Redline S, Zhu X. Rare variants in Fox-1 homolog A (RBFox1) are protectively associated with blood pressure. American Society of Human Genetics Annual Meeting, Vancouver, Canada, October 18-22, 2016.

13. **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. *Oral and poster presentation*. Integrating Genetics and Social Sciences Conference, Boulder, CO, October 21-22, 2016.
14. 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 Conference, Boulder, CO, October 21-22, 2016.
15. Ware EB, Schmitz L, Faul J, **Smith JA**, Mitchell C, Zhao W, Weir D, Kardina SLR. Establishing best practices: generating polygenic scores in a population-representative cohort. Integrating Genetics and Social Sciences Conference, Boulder, CO, October 21-22, 2016.
16. Lieske JC, Perinpam M, Ware EB, **Smith JA**, Turner ST, Kardina SL. Higher blood glucose is associated with higher urine citrate excretion. 13th Annual Symposium on Urolithiasis, Makuhari, Japan, July 19-22, 2016.
17. Brown K, Kardina 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.
18. **Smith JA**, Ware EB, Zhao W, Faul JD, Kardina SLR. Gene-by-psychosocial factor interactions on blood pressure in older non-Hispanic whites and African Americans: A genomic region-level analysis. *Poster presentation*. American Heart Association Epidemiology and Prevention / Lifestyle and Cardiometabolic Health 2016 Scientific Sessions, Phoenix, AZ, Mar 1-4, 2016.
19. Ware EB, **Smith JA**, Faul J, Kardina 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 2016 Scientific Sessions, Phoenix, AZ, Mar 1-4, 2016.
20. Richard MA, Huan T, Ligthart S, Marioni RE, Brody JA, Sotoodehnia N, Jhun MA, Kardina 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 2016 Scientific Sessions, Phoenix, AZ, Mar 1-4, 2016.
21. 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, Chesni 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 2016 Scientific Sessions, Phoenix, AZ, Mar 1-4, 2016.
22. Kho M, **Smith JA**, Zhao W, Ware EB, Kardina 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.
23. Perinpam M, Ware EB, **Smith JA**, Turner ST, Kardina 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.

24. 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.
25. 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 (SLLS) Conference, Dublin, Ireland, October 19-21, 2015.
26. 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 Annual Meeting, Baltimore, MD, October 6-10, 2015.
27. 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 meeting, Jackson, MS. July 1-2, 2015.
28. 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 Annual Meeting. San Diego, CA. October 18-22, 2014.
29. 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 Annual Meeting, San Diego, CA, October 18-22, 2014.
30. 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 Annual Meeting, San Diego, CA, October 18-22, 2014.
31. 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 Annual Meeting, San Diego, CA, October 18-22, 2014.
32. 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.
33. 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. 139th Annual American Neurological Association Meeting, Baltimore, MD, October 11-14, 2014.
34. Faul JD, Mitchell C, **Smith JA**. Is heritability of telomere length modified by lifecourse socioeconomic status? 4th Annual Integrating Genetics and Social Sciences Conference, Boulder, CO, October 9-10, 2014.
35. 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.

36. 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 Annual Meeting, San Diego, CA, May 4-8, 2014.
37. 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.
38. 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 Annual Meeting. Boston, MA. October 22-26, 2013.
39. **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). *Poster presentation*. American Society of Human Genetics Annual Meeting. Boston, MA. October 22-26, 2013.
40. 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.
41. 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.
42. Lazarus AL, **Smith JA**, Mosley TH, Jr., Turner ST, Kardia SLR. The role of aging in the heritability of epigenomic markers. Twenty-first Annual Meeting of the International Genetic Epidemiology Society (IGES), Stevenson, WA, October 18-20, 2012. *Genetic Epidemiology* 36(7): 722.
**Nominated for Williams Award*
43. Lazarus AL, **Smith JA**, Mosley TH, Jr., Turner ST, Sun YV, Kardia SLR. Epigenomic indicators of age. Twenty-first Annual Meeting of the International Genetic Epidemiology Society (IGES), Stevenson, WA, October 18-20, 2012. *Genetic Epidemiology* 36(7):768.
44. **Smith JA**, Lazarus AL, Mosley TH, Jr., Turner ST, Kardia SLR. An epigenetic intersection of age, inflammation, and kidney function. *Poster presentation*. Twenty-first Annual Meeting of the International Genetic Epidemiology Society (IGES), Stevenson, WA, October 18-20, 2012. *Genetic Epidemiology* 36(7):769.
45. Liekse JC, Turner ST, Edeh S, Fuller T, **Smith JA**, Kardia SR. Heritability of urinary traits that contribute to nephrolithiasis. Kidney Week 2012, American Society of Nephrology, San Diego, CA, October 30-November 4, 2012.
46. Sun YV, Lazarus A, **Smith JA**, YH Chang, Zhao W, Turner ST, Kardia SLR. Gene-specific DNA methylation association with serum levels of C-reactive protein in African Americans. American Heart Association / American Stroke Association Basic Cardiovascular Sciences 2012 Scientific Sessions, New Orleans, LA, July 23-26, 2012.

47. Kim DS, Wu CY, **Smith JA**, Bielak LF, Peyser PA, Sun YV, Sheedy PF, Turner ST, Kardia SLR. Genetic interactions with serum homocysteine levels predicts coronary artery calcification in GENOA, with replication in the Framingham Heart Study. American Heart Association Scientific Sessions, Orlando, FL, November 12-16, 2011.
48. Kim DS, Wu CY, **Smith JA**, Bielak LF, Peyser PA, Sun YV, Sheedy PF, Turner ST, Kardia SLR. Gene-environment interactions predicting coronary artery calcification in GENOA, with replication in the Framingham Heart Study. NHLBI Symposium: Genomics: Gene Discovery and Clinical Applications for Cardiovascular, Lung, and Blood Diseases, Bethesda, MD, September 12-13, 2011.
49. **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. *Poster presentation*. 2008 Doctoral Student Health Research Symposium: Multi-Disciplinary Approaches Toward Improving Health, University of Michigan, Ann Arbor, MI, March 24, 2008.
50. **Smith JA**, Kardia SLR. The genetic architecture of fasting plasma triglyceride response to Fenofibrate treatment. *Oral presentation*. PROGENI/NHLBI Gene-Environment Interaction Studies Annual Meetings, Baltimore, MD, December 3-4, 2007.
51. **Smith JA**, Turner ST, Sun YV, Fornage, Mosley TH, Boerwinkle E, de Andrade M, Kardia SLR. The genetic architecture of leukoaraiosis in hypertensive sibships. *Poster presentation*. Sixteenth Annual Meeting of the International Genetic Epidemiology Society (IGES), North Yorkshire, England, September 7-10, 2007. *Genetic Epidemiology* 32(7):714.
52. **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. *Poster presentation*. Clinical Cardiovascular Genomics Meetings, Cold Spring Harbor Laboratory, Cold Spring, NY, October 10-13, 2007.
53. **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. *Poster presentation*. Fifteenth Annual Meeting of the International Genetic Epidemiology Society (IGES), St. Petersburg, FL, November 16-17, 2006. *Genetic Epidemiology* 31(5):498.
54. Kelly RJ, Jacobsen DM, Sun YV, **Smith JA**, Kardia SLR. KGraph: Visualizing and evaluating complex genetic associations. Fifteenth Annual Meeting of the International Genetic Epidemiology Society (IGES), St. Petersburg, FL, November 16-17, 2006. *Genetic Epidemiology* 31(5):478.
55. Kelly RJ, Arnett DK, **Smith JA**, Ordovas JM, Sun YV, Hopkins PN, Peacock JM, Kardia SLR. Interacting genetic factors influencing fasting LDL and HDL response to Fenofibrate. Fifteenth Annual Meeting of the International Genetic Epidemiology Society (IGES), St. Petersburg, FL, November 16-17, 2006. *Genetic Epidemiology* 31(5):477.
56. **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. *Poster presentation*. 2nd North American Congress of Epidemiology, Society for Epidemiologic Research, Seattle, WA, June 21-24, 2006. *American Journal of Epidemiology* 163 (Suppl 11):S128.

Workshops

- June 2016 *Genomics for Social Scientists*, Institute for Social Research, University of Michigan, Ann Arbor, MI
1. "Population stratification and admixture: Avoiding the pitfalls and utilizing the strength of ancestry and admixture."

2. “Imputation: Basic explanation of genotype imputation, inputs and outputs, using online reference sources HapMap and 1000 Genomes Project”
3. “GWAS and meta analyses: alleles, effects, models, and p-values”
4. “Structural and rare variants”

Invited Talks

- Apr. 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
- 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
- Feb. 28, 2013 “Age, epigenomic variation, and chronic disease in African Americans,” 3rd Annual Center for Integrative Approaches to Health Disparities (CIAHD)/Jackson Heart Study (JHS) Junior Investigator Symposium, Jackson, MS
- April 30, 2012 “Investigating the genetic architecture of hypertension-related structural brain injury,” Department of Epidemiology, University of Michigan, Ann Arbor, MI

Panel Discussions

- Mar. 23, 2017 Moderator, “Eliseo Perez-Stable (Director, NIMHD) and CIAHD Senior Investigators,” 7th Annual Center for Integrative Approaches to Health Disparities (CIAHD)/Jackson Heart Study (JHS) Junior Investigator Symposium, Ann Arbor, MI
- Fall, 2016 – Spring, 2017 Moderator of 3 seminars in the “Journeys in Genetics,” Seminar Series for the 20th Anniversary of the Certificate in Public Health Genetics program and the 75th Anniversary of the School of Public Health, School of Public Health, University of Michigan, Ann Arbor, MI
- Nov. 18, 2016 Panelist, “Chronic Disease, Genetics, and Lifestage,” Epidemiology Symposium for the 75th Anniversary of the School of Public Health, School of Public Health, University of Michigan, Ann Arbor, MI
- Mar. 11, 2016 Moderator, “Alumni Panel,” Admitted Student Day, Department of Epidemiology, University of Michigan, Ann Arbor, MI
- Jan. 27, 2016 Panelist, “Department of Epidemiology Alumni,” Doctoral Seminar (EPID 890), Department of Epidemiology, University of Michigan, Ann Arbor, MI
- Nov. 6, 2013 Panelist, “Department of Epidemiology Alumni,” Doctoral Seminar (EPID 890), Department of Epidemiology, University of Michigan, Ann Arbor, MI