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PERSONAL

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EDUCATION

- 2007 **Doctor of Philosophy**
Epidemiology, formal minor in biostatistics
University of North Carolina at Chapel Hill
Dissertation: Genotype-by-smoking interaction and the risk of
atherosclerosis and its clinical sequelae
Advisor: Dr. Kari North
- 2003 **Masters of Public Health**
Epidemiology, specialization in public health genetics
University of Michigan, Ann Arbor
- 1999 **Bachelor of Science**
Human Biology
Michigan State University

PROFESSIONAL EXPERIENCE

- 2017 - present Associate Professor of Epidemiology
University of North Carolina at Chapel Hill
- 2016 – present Carolina Population Center Fellow
University of North Carolina at Chapel Hill
- 2011 - 2017 Assistant Professor of Epidemiology
University of North Carolina at Chapel Hill
- 2007 – 2011 Postdoctoral Fellow
Department of Epidemiology
University of North Carolina at Chapel Hill
- 2003 – 2007 Research Assistant
Department of Epidemiology
University of North Carolina at Chapel Hill
- 2001 – 2003 Research Assistant

Department of Epidemiology
University of Michigan, Ann Arbor

2000 – 2001 Research Assistant
Department of Pharmacology
University of Michigan, Ann Arbor

HONORS

2021 UNC Gillings School of Public Health Teaching Excellence and Innovation Award
2016 Invited attendee, AHA/ASA Research Leaders Academy
2015 Sandra A. Daugherty AHA Epidemiology/Lifestyle junior faculty award
2013 CHARGE visiting fellow (Mentor: Dr. Bruce Psaty, University of Washington)
2011 -2017 NIH / NHLBI Clinical Research Loan Repayment Program Award
2010 University of North Carolina Postdoctoral Award for Research Excellence
2008 Delta Omega, Honorary Society for Graduate Studies in Public Health
2007 - 2009 University of North Carolina Cardiovascular Disease postdoctoral training grant
2006 Rebecca James Baker Memorial Scholarship
2005 North Carolina State University Institute in Statistical Genetics scholarship
2003 - 2006 University of North Carolina Cardiovascular Disease predoctoral training grant
2001 - 2003 University of Michigan Dean's Scholarship
1996,97,98-99 Deans List of Scholars, Michigan State University

BIBLIOGRAPHY

†First author is a pre- or post-doctoral fellow for whom I am the primary mentor.

**Co-first/senior authorship*

UNDER REVIEW

U5. **Avery CL**, Howard AG, Lee HH, Lee MP, Koenigsberg SH, Ballou AF, Preuss M, Raffield L, Yarosh R, North KE, Gordon-Larsen P, Graff M. Branched chain amino acids harbor distinct and often opposing effects on health and disease

†U4. Baldassari AR, Soliman EZ, Sitlani CM, Whitsel EA, **Avery CL**. Short-term repeatability of electrocardiographic spatial repolarization markers.

U3. Shemirani R, Belbin GM, **Avery CL**, Kenny EE, Gignoux CR, Ambite J-L. Selecting Clustering Algorithms for IBD Mapping. Revision requested, *BMC Bioinformatics*

†*U2. Lee MP, Dimos S, Raffield L, Ballou AF, Arehart C, Correa A, de Vries P, Du Z, Gignoux C, Gordon-Larsen P, Guo X, Haessler J, Howard AG, Hu Y, Kent S, Monda KL, North KE, Peters U, Preuss M, Rich S, Rhodes S, Rotter J, Yao J, Yarosh R, Tsai M, Kooperberg C, Ballantyne CM, **Avery CL**, * Graff M.* Specificity of lipoprotein (a) polygenic risk scores in ancestrally diverse populations

U1. Sorokin EP, Belbin GM, Wojcik GL, Abul-Husn NS, Cullina S, Barghash M, Kohil S, Daya M, Bien SA, Cook D, Zhou L, Moscati A, Bobo DM, Highland HM, Hodonsky CJ, Kocarnik JM, Liueng B, Odgis JA, Merkelson A, Sockell A, Uren C, Wright M, Zhen J, Zhubair N, Baker J, Chen

R, Crooks K, Henn BM, Herrera-Paz EF, Hoal E, Klitz W, Moller M, Moreno Estrada A, Norman PJ, Novembre J, Perham P, Sandoval K, Schadt EE, Sebra R, Winkler C, **Avery CL**, Barnes KC, Bottinger EP, Carlson CS, Cho JH, Hailu B, Hindorff LA, Mathais RA, Mayorga A, Setiawan VW, Wassel CL, Buyske S, Haiman CA, Kooperberg C, Le Marchand L, Matisse TC, North KE, Peters U, Loos RJF, Bustamante CD, Gignoux CR, Kenny EE. The Global Landscape of Clinical Genetic Variation.

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WK, Olshan AF. Single Nucleotide Polymorphisms in Nucleotide Excision Repair Genes, Cigarette Smoking, and the Risk of Head and Neck Cancer. *Cancer Epidemiology, Biomarkers & Prevention*, 2013;22(8):1428-1445.

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WD, Heiss G. The population burden of heart failure attributable to modifiable risk factors: The Atherosclerosis Risk in Communities (ARIC) study. *Journal of the American College of Cardiology* 2012; 60(17): 1640-6. PMID: PMC3653309.

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6. Zeng D, Lin DY, **Avery CL**, North KE, Bray MS. Efficient semiparametric estimation of haplotype-disease associations in case-cohort and nested case-control studies. *Biostatistics* 2006;7:486-502
5. **Avery CL**, Freedman BI, Kraja A, Borecki IB, Miller MB, Pankow JS, Arnett D, Lewis CE, Myers RH, Hunt SC, North KE. Genotype-by-sex interaction in the etiology of diabetes: Support for sex-specific QTLs in HyperGEN participants. *Diabetologia* 2006;49:2329-36.
4. **Avery CL**, Martin LJ, Williams JT, North KE. Accuracy of haplotype estimation in a region of low linkage disequilibrium. *BMC Genetics* 2005; 6(Suppl 1):S80. PMID: PMC1866700.
3. Martin LJ, **Avery CL**, Williams JT, North KE. Possible QTL-specific genotype by alcoholism interaction for evoked EEG oscillations. *BMC Genetics* 2005; 6(Suppl 1):S123. PMID: PMC1866814.
2. **Avery CL**, Freedman BI, Heiss G, Kraja A, Rice T, Arnett D, Miller MB, Pankow JS, Lewis CE, Myers RH, Hunt SC, Almasy L, North KE. Linkage analysis of diabetes status among hypertensive families: the HyperGEN Study. *Diabetes*. 2004;53:3307-12.
1. Chen C, Bharucha V, Chen Y, Westenbroek R, Brown A, Malhotra J, Jones D, **Avery C**, Gillespie P, Kazen-Gillespie K, Saunders T, Macdonald R, Catterall W, LL Isom. Reduced Sodium Channel Density, Altered Voltage Dependence of Inactivation, and Increased Susceptibility to Seizures in Mice Lacking Sodium Channel $\beta 2$ Subunits. *Proc Nat Acad Sci USA*. 2002;99:17072-7. PMID: PMC139271.

TEACHING RECORD

University of North Carolina at Chapel Hill, Department of Epidemiology

Lead instructor	<p>EPID 716: Epidemiologic Analysis of Binary Data, 2013- Number of students: 33-69</p> <p>EPID 889: Readings in CVD Epidemiology, 2021, 2022 Number of students: 20</p> <p>EPID 889: OMICs of HLB traits, 2019 Number of students: 19</p> <p>EPID 889: Population Burden Measures in Epidemiology, 2012-16 Number of students: 10-15</p>
Developer	<p>MPH@UNC online course: Epidemiologic Analysis of Binary Data (2021-22)</p>
Co-instructor	<p>EPID 890: Perspectives in Epidemiology and Public Health, 2014-15 Number of students: 10</p> <p>EPID 715: Theory and Quantitative Methods in Epidemiology, 2012 Number of students: 45</p>
Invited lecturer	<p>EPID 889: Genetic epidemiology data analysis, 2021 Number of students: 18</p> <p>EPID 735: Cardiovascular Disease Epidemiology, 2009-11, 15- Number of students: ~15</p> <p>EPID 710: Fundamentals of Epidemiology, 2014, 16 Number of students: ~45</p> <p>EPID 743: Genetic Epidemiology, 2009-13 Number of students: ~15</p> <p>EPID 810: Design of Clinical Research, 2012 Number of students: ~10</p> <p>PATH 797: Molecular and Cellular Biology of CVD, 2013, 15, 16 Number of students: ~5</p>

University of Ulm, Germany (Summer Institute)

Lead instructor	<p>Epidemiologic Analysis of Binary Data, 2018 Number of students: 14</p> <p>Genetic Epidemiology, 2011 Number of students: 30</p>
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POSTDOCTORAL MENTORING

- Current:
- 1) Moa Park Lee (2018-)
 - 2) Mohanraj Krishnan (2021-)

- Completed:
- 1) Harold Lee (2021-2)
 - 2) Raul Mendez Giraldez (2015-17)

GRADUATE STUDENT MENTORING

Current:

Dissertation chair:

- 1) Epidemiology: Antoine Baldassari (expected graduation: 08/2022)
- 2) Epidemiology: Moa Park Lee (expected graduation: 05/2023)
- 3) Epidemiology: Brooke Staley (expected graduation: 08/2023)
- 4) Epidemiology: Carolina Downie (expected graduation: 08/2023)
- 5) Epidemiology: Anna Ballou (expected graduation: 08/2025)
- 6) Epidemiology: Sarah Koenigsberg (expected graduation: 08/2026)
- 7) Epidemiology: Emily Drzymalla (expected graduation: 08/2027)

Dissertation committee member:

- 1) Epidemiology: Poojan Shrestha
- 2) Epidemiology: Daeun Kim
- 3) Epidemiology: Victoria Buchanan
- 4) Epidemiology: Leah Sadinski
- 5) Sociology: Adam Lilly
- 6) Nutrition: Sarah Frank
- 7) Nutrition: Caitlyn Lowery

Completed:

Dissertation chair (year graduated):

- 1) Epidemiology: Chani Hodonsky (2019)
- 2) Epidemiology: Joseph Engeda (2019)
- 3) Epidemiology: Amanda Seyerle (2016)

Masters paper chair (year graduated):

- 1) Epidemiology: Antoine Baldassari (2018)
- 2) Epidemiology: Amanda Seyerle (2013)

Dissertation committee member (year graduated):

- 1) Epidemiology: Audrey Renson (2021)
- 2) Nutrition: Natalia Rebolledo Fuentealba (2021)
- 3) Nutrition: Yiqing Wang (2020)
- 4) Nutrition: Tania Aburto Soto (2019)
- 5) Epidemiology: Erlene Miller (2018)
- 6) Epidemiology: Shakia Hardy (2017)
- 7) Epidemiology: Aderonke Akinkugbe (2017)

- 8) Epidemiology: Anna Bauer (2017)
- 9) Health Policy: Jamie Jarmul (2017)
- 10) Epidemiology: Kapuaola Gellert (2016)
- 11) Epidemiology: Evan Busch (2015)
- 12) Epidemiology: Sara Jones (2015)
- 13) Epidemiology: Annah Wyss (2013)
- 14) Epidemiology: Quaker Harmon (2012)
- 15) Biostatistics: Qianchuan (Chad) He (2012)

Masters paper second reader (year graduated):

- 1) Epidemiology: Katelyn Holliday (2011)

UNDERGRADUATE STUDENT MENTORING

Current: None

Completed:

- 1) Sofia Dimos (2018-2021)
- 2) Ashlyn Stackhouse (2017-2018)

UNDERGRADUATE, PREDOCTORAL, AND POSTDOCTORAL AWARDS*

**Restricted to awards where I am the primary mentor/senior author*

- 1) Moa Park Lee (2020-21)
Recipient, F32HL149256, "A Phenome-Wide Association Study to Identify and Characterize Phenotypic Effects of Lp(a)"
- 2) Sofia Dimos (2019-21)
Recipient, R01HL142825S1, Research Supplement to Promote Diversity in Health-Related Research
- 3) Katelyn Holliday (2014)
Recipient, Steven Blair Award for Excellence in Physical Activity Research, 2014 AHA EPI/Lifestyle conference
- 4) Shakia Hardy (2014)
Finalist, Jeremiah and Rose Stamler Research Award for New Investigators, 2014 AHA EPI/Lifestyle conference

GRANTS

Current Research Support

Project # R01HL147853 Avery NHLBI 01/01/2020-12/31/2023
 Title: Inflammatory mediators of cardiometabolic risk in Latinos
 Description: This grant will measure eicosanoid metabolites in HCHS/SOL participants and examine their association with diabetes and cardiometabolic risk factors.
 Role: Principal investigator (20% effort)
 Total costs: \$3,875,000

Project #R01HL143885 Avery, Gordon-Larsen, North, Sumner (MPI) 04/01/2019-03/31/2023
 Title: Leveraging multi-omics approaches to examine metabolic challenges of obesity in relation to cardiovascular diseases

Description: This study will test molecular mechanisms underlying obesity-associated CVD
Role: Principal Investigator (with Penny Gordon-Larsen, Kari North, and Susan Sumner)
Total costs: \$ 8,894,348

Project #R01HL142825 Avery NHLBI 02/10/2019-01/31/2024
Title: Characterizing pleiotropy in cardiometabolic phenotypes among diverse populations
Description: This study will examine the role of shared genetic effects in the etiology of cardiometabolic traits that span blood pressure, glucose, obesity, electrocardiographic, and lipid measurements.
Role: Principal Investigator
Total costs: \$3,231,039

Project #R01HL142825S1 Avery NHLBI 07/19/2019-01/31/2024
Title: Characterizing pleiotropy in cardiometabolic phenotypes among diverse populations-Admin Suppl
Description: This administrative supplement will support Ms. Sofia Dimos's training in the genetic epidemiology of cardiovascular diseases.
Role: Principal Investigator and mentor
Total costs: \$102,012

Project #R01HG010297 Matisse, Gignoux (MPI) NHGRI 06/01/2019-05/31/2023
Title: PAGE III: Population Architecture using Genomics and Epidemiology
Description: This grant will test molecular mechanisms underlying established obesity genetic variants using metabolic markers via metabolomics.
Role: Co-investigator
Total costs: \$6,800,000

Project #R01HL151152 Kooperberg, Gignoux, North (MPI) NHLBI 08/2020-07/2024
Title: Polygenic Risk Scores for Diverse Populations - Bridging Research and Clinical Care
Description: We address major limitations in the science of polygenic risk scores (PRS) in multi-ethnic populations.
Role: Co-investigator
Total costs: \$9,617,000

Project #T32HL129982 Mohlke, North (MPD) NHLBI 05/01/16 – 04/30/26
Title: The Genetic Epidemiology of Heart, Lung, and Blood Traits Training Grant (GenHLB)
Description: Training grant in heart, lung, and blood genetic epidemiology for pre- and post-doctoral fellows in the University of North Carolina's Department of Epidemiology.
Role: HLB Genetic Epidemiology training dimension lead
Total costs: \$1,207,760

Pending Research Support

None

Completed Research Support

Project #2011561720 Avery Amgen 02/01/2019-12/31/2021
Title: Phenome-wide association study of Lp(a) variants
Description: This study will assess the wide-ranging phenotypic consequences of genetically inferred Lp(a)
Role: Principal investigator
Total costs: \$ 411,530

Project #R03HD097630 Avery, Harris (MPI) NICHD 09/20/2018-08/31/20
Title: Add Health GWAS Data: User Support and Research Tools Enable Widespread Access
Description: The study outlines a plan to develop tools to enable widespread access to and use of genome-wide association study (GWAS) data among respondents in the National Longitudinal Study of Adolescent to Adult Health (Add Health).
Role: Principal Investigator (with Kathleen Mullan Harris)
Total cost: \$155,500

Project #U01HG007416 North (PI) NHGRI 07/01/13- 05/31/19
Title: Genetic epidemiology of causal variants across the life course (CALiCo) Phase II
Description: The Genetic Epidemiology of Causal Variants Across the Life Course (CALiCo) is a member study of Population Architecture using Genomics and Epidemiology (PAGE). PAGE was established to investigate the epidemiologic architecture of mature genetic variants associated with complex diseases.
Role: Co-investigator
Total costs: \$3,057,956

Project # R01HD73342 Harris (PI) NICHD 07/01/12-03/01/19
Title: Add Health: A Genotype and Phenotype Resource for the Global Scientific Community
Description: This proposal will complete genome-wide genotyping on the remaining 6,000 Add Health samples using current Illumina chip technology, prepare genotype and phenotype data and documentation for dissemination, and conduct GWAS
Role: Co-Investigator
Total costs: \$2,864,536

Project # R01HL103612 Psaty (PI) NHLBI 08/10/11-07/31/17 (NCE)
Title: Prospective meta-analyses of drug-gene interactions: CHARGE GWAS consortium
Description: The investigators will use GWAS methods to identify potential drug-gene interactions related to unintended drug effects and to identify genetic variants that may modify the intended effects of treatments for lipids and blood pressure on change in risk factor levels, carotid atherosclerosis and incidence of cardiovascular events.
Role: Co-Investigator
Total costs: \$439,755

Project # 15GPSPG239 Avery (PI) AHA 02/1/2015- 01/31/2017
Title: Pharmacogenomics of risk factors for cardiac arrhythmias in global populations
Description: This study will evaluate common SNPs influencing arrhythmogenic adverse drug reactions in European American, African American, and Hispanics/Latino populations.
Role: Principal Investigator

Direct costs: \$500,000

Project # R21HL121580 Avery (PI) NHLBI 09/15/13- 07/31/16 (NCE)

Title: The natural history of cardiovascular health in U.S. populations

Description: This study will characterize the stages and age epochs at which African American, Hispanic/Latino, American Indian, and Caucasian U.S. populations transition between ideal, intermediate, and poor levels of cardiovascular health metrics.

Role: Principal Investigator

Total costs: \$210,486

Project #PPHF 2014 Hoerger (PI) CDC 10/01/2014-09/30/16

Title: Developing Online Toolkits to Evaluate Diabetes Burdens and Impacts of Diabetes
Preventions for States

Description: This project will compute and report diabetes-attributable morbidity, mortality, and economic costs as well as health and economic impacts of diabetes prevention programs for use by U.S. states

Role: Consultant

Project # R00HL098458 Avery (PI) NHLBI 08/15/11-05/31/15

Title: Enumerating the community burden of heart failure

Description: This study is designed to facilitate enumeration of heart failure in outpatient settings, accomplished by developing and calibrating simple but accurate heart failure classification tools in outpatient settings and applying these tools in the Atherosclerosis Risk in Communities Study.

Role: Principal Investigator

Total costs: \$450,000

Project # R01ES017794 Whitsel (PI) NIEHS 08/11/10-05/30/15

Title: Modification of PM-mediated arrhythmogenesis in populations

Description: This application will investigate susceptibility to the arrhythmogenic effects of particulate matter (PM) air pollution contributed by common genetic variation in the Women's Health Initiative Clinical Trial and Atherosclerosis Risk in Communities studies.

Role: Co-investigator

Total costs: \$2,289,037

Project # A10-0347-001 North (PI) NHLBI 08/01/2009-06/01/2011

Title: GWAS Analysis for the Women's Health Initiative Study

Description: The goal of this study is to detect, map, and identify polymorphic genes that influence variation in complex phenotypes in women.

Role: Co-investigator

Total costs: \$708,762

Project: # U01HG004803 North (PI) NHGRI 06/01/11-05/31/14

Title: Genetic epidemiology of causal variants across the life course (CALiCo)

Description: The Genetic Epidemiology of Causal Variants Across the Life Course (CALiCo) is a member study of Population Architecture using Genomics and Epidemiology (PAGE). PAGE was established to investigate the epidemiologic architecture of mature genetic variants associated with

complex diseases.
Role: Co-investigator
Total costs: \$3,275,184

Project: # AS405 Avery (PI) WHI SE-RC RFA 11/01/12-9/30/13
Title: Pharmacogenomics of risk factors for cardiac arrhythmias in global populations
Description: Pilot study to include Women's Health Initiative Clinical Trial participants in a ten-study consortium examining pharmacogenomic influences on ECG traits.
Role: Principal Investigator
Total costs: \$20,000

Project # K99HL098458 Avery (PI) NHLBI 04/01/10-08/14/11
Title: Enumerating the community burden of heart failure
Description: This study is designed to facilitate enumeration of heart failure in outpatient settings, accomplished by developing and calibrating simple but accurate classification tools in outpatient settings and applying these tools in the Atherosclerosis Risk in Communities Study cohort.
Role: Principal Investigator
Total costs: \$200,000

Project # 0615310U Avery (PI) AHA 07/01/06-08/30/07
Title: Tobacco exposure, DNA repair genes, and atherosclerosis: the Atherosclerosis Risk in Communities (ARIC) study
Description: This project evaluated how common DNA repair gene variants, in combination with exposure to tobacco smoke, modified the risk of atherosclerosis and its clinical sequelae.
Role: Principal Investigator
Total costs: \$25,950

PROFESSIONAL SERVICE

Invited Grant Reviews

2021-	NIH NHLBI Mentored Transition to Independence Review Committee permanent member
2019-21	NIH NHLBI Mentored Transition to Independence Review Committee ad hoc reviewer
2017, 21	NIH CHS study section ad hoc reviewer
2020	05 ZRG1 PSE-E (02) S Chronic Diseases and Epidemiology ad hoc reviewer
2018	Mid-Atlantic NORC Pilot and Feasibility Grant ad hoc reviewer
2018	AHA Uncovering New Patterns ad hoc reviewer
2016	NIH/NHLBI K01 special emphasis panel ad hoc reviewer
2015	AHA Behavioral Science - Prevention/Intervention ad hoc reviewer
2014	NIH CASE/EPIC study section (ZRG1 PSEQ 90) ad hoc reviewer
2012	Center for Environmental Health and Susceptibility (CEHS), University of North Carolina at Chapel Hill

Leadership

- 2020- Leader, UNC Cardiovascular Epidemiology Program Area (50 faculty, staff, and students)
- 2018- Coleader, UNC CVD Genetic Epidemiology computational lab (25 faculty, staff, and students)

Scientific and Advisory Committees

- 2021-3 American Heart Association EPI Statistics Committee of the Council on Epidemiology and Prevention (Nominated member)
- 2012 Circulatory Device Advisory Committee panelist, U.S. Food and Drug Administration, Silver Spring, MD

University and Study Committees

- 2019,- University of North Carolina Postdoctoral Award for Research Excellence Selection Committee
- 2014- Atherosclerosis Risk in Communities Ancillary Studies
- 2013- HCHS/SOL ECG genomics working group (chair)
- 2012- Women's Health Initiative Publications & Presentations
- 2011- University of North Carolina Department of Epidemiology Graduate Studies

Editorial

Associate Editor

Heart (2022-)

Invited Manuscript Review

American Journal of Epidemiology (2015 – 1)
American Journal of Preventive Medicine (2016 -1)
American Heart Association abstract review (2012, 2016-)
Annals of Epidemiology (2018-1)
Circulation (2012 -1, 2013 – 2, 2014-2, 2015-1, 2019-1, 2020-1, 2021-1)
Circulation: Genomics and Precision Medicine (2012 -1, 2021-1)
Clinical Genetics (2017-1)
Current Pharmacogenomics and Personalized Medicine (2017-1)
Diabetes (2015 – 1)
Diabetes Care (2020 – 1)
Diabetes Research and Clinical Practice (2012 – 1)
Diabetic Research (2013 – 1)
Environmental Health Perspectives (2013- 2)
Epidemiology (2015 – 2; 2017-1)
Genetic Epidemiology (2012 -1, 2020 - 1)
Heart (2013 – 1, 2014-1)
JAMA Neurology (2020-1)
Journal of Internal Medicine (2018 -1)
North Carolina Medical Journal (2013, 1)
Pharmacoepidemiology and Drug Safety (2015, 1)
Pharmacy and Therapeutics (2014, 1)

PLoS Medicine (2020-1)
PLoS One (2013 – 1, 2014-1)
Scientific Reports (2016 -1)
Society for Epidemiologic Research abstract review (2011, 2012)

Conference Contribution

2021-22 AHA Epidemiology|Lifestyle Organizing Committee
2021 Chair, SER session “So much more than GWAS: How genetics can strengthen causal inference”
2011 Co-chair, North American Congress of Epidemiology symposium: “What role does the epidemiologist play in genetic epidemiology?”

MEMBERSHIPS AND FELLOWSHIPS

2019- Member, Society for Epidemiologic Research
2015- Fellow of the American Heart Association (FAHA)
2003- Member, American Heart Association

INVITED SPEAKER

2022 Columbia University: The Exposome Boot Camp: Measuring Exposures on an Omic Scale
2022 NIH/NHLBI: Epidemiology Pan-T32 Conference Series
2022 University of Southern California Center for Genetic Epidemiology: Seminar Series
2021 University of North Carolina Center for Pharmacoepidemiology: Methods Symposium
2019 University of Alabama: CCVC 8th Annual Symposium New Horizons in CVD: A focus on Precision and Personalized Medicine
2019 NIH/NHLBI: K to R01 Investigators meeting
2019 Society for Epidemiology Research (SER)
2015 North Carolina State University: PopMED Forum
2012 University of North Carolina: Cardiovascular Grand Rounds

DIVERSITY, EQUITY, AND INCLUSION

2006- Research awards that prioritized inclusion of diverse populations
2018 Secured undergraduate diversity supplement to R01HL142825
2014, 19 Ad hoc reviewer: NHLBI MOSAIC and K01 awards to promote diversity
2019 Redesigned EPID 716 to integrate content measuring race and racism
2019 Organized Departmental and CVD program area anti-racism trainings