

Christy L. Avery, Ph.D., MPH, FAHA

ADDRESS

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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

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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

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 - 1999 Dean's List of Scholars, Michigan State University

EXTRAMURAL FUNDING

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
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

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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 #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 #R01HG010297 Matise, 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 #R03HD097630 Avery, Harris (MPI) NICHD 09/20/2018-08/31/20

Title: Add Health GWAS Data: User Support and Research Tools Enable Widespread Access

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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

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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 # 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: # 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			

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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

PUBLICATIONS

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

^{*}*Co-first/senior authorship*

UNDER REVIEW

6. **Avery CL**, Howard AH, Ballou AF, Buchanan VL, Collins JM, Downie CG, Graff M, Highland HM, Lee MP, Lilly AG, Lu K, Ragner JE, Staley BS, North KE, and Gordon-Larsen P. How genetic data can strengthen causal inference in exposomics

5. **Avery CL**, Howard AG, Nichols HB. Comparison of 20-year obesity-related cancer mortality trends with heart disease mortality trends in the US. Revision requested, *JAMA Network Open*.

4. Raffield LM, Howard AG, Graff M, Lin D, Cheng S, Demerath E, Ndumele C, Rebholz C, Seidemann S, Yu B, North KE, **Avery CL**, Gordon-Larsen P. Obesity duration, severity, and distribution trajectories and cardiovascular disease risk in the Atherosclerosis Risk in Communities Study.

3. Sun Q, Rowland B, Wen J, Huang L, Lee MP, **Avery CL**, Franceschini N, North KE, Li Y, Raffield L. Analyses of Serum and Urine Biomarker Traits in UK Biobank Participants with African, South Asian, and East Asian Ancestry

2. Sitlani CM, Baldassari AR, Highland HM, Hodonsky CJ, McKnight B, **Avery CL**. Comparison of multiple phenotype association tests using summary statistics in genome-wide association studies

1. 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, Zbubair 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,

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Wassel CL, Buyske S, Haiman CA, Kopperberg C, Le Marchand L, Matise TC, North KE, Peters U, Loos RJF, Bustamante CD, Gignoux CR, Kenny EE. The Global Landscape of Clinical Genetic Variation.

PUBLISHED OR IN-PRESS (n= 2,998 citations, h-index = 27)

101. Wang Y, Wang H, Howard AH, Tsilimigras MCB, **Avery CL**, Meyer KA, Sha W, Sun S, Su C, Wang Z, Fodor AA, Zhang B, Gordon-Larsen P. Gut microbiota and host metabolites associated with blood pressure in Chinese adults. In press, *Hypertension*. 2020

100. **Avery CL**, Howard AG, Nichols HB. Trends in U.S. cancer and heart disease mortality, 1999-2018. *Circulation*. 2021 Jan 19;143(3):287-288

99. Shemirani R, Belbin GM, **Avery CL**, Kenny EE, Gignoux CR, Ambite J-L. Rapid detection of identity-by-descent tracts for mega-scale datasets. In press, *Nature Communications*. 2020

98. Wang Y, Wang H, Howard AG, Tsilimigras MCB, **Avery CL**, Meyer KA, Sha W, Sumner SJ, Zhang J, Su C, Wang Z, Zhang B, Fodor AA, Gordon-Larsen P. Sodium and Potassium Consumption was Associated with Gut Microbiota and Plasma Metabolome Involved in Cardiometabolic Health: A Population-based Study of Chinese Adults. In press, *Am J Clinical Nutrition*

97. Wang Y, Wang H, Howard AG, Meyer KA, Tsilimigras M, **Avery CL**, Sha W, Sun S, Zhang J, Su C, Wang Z, Zhang B, Fodor A, Gordon-Larsen P. Circulating Short-chain Fatty Acids are Positively Associated with Adiposity Measures in Chinese Adults. In press, *Nutrients*. 2020

†96. Engeda JC, Lhachimi SK, Rosamond WD, Lund JL, Keyserling TC, Safford MM, Colantonio LD, Muntner P, **Avery CL**. Projections of atherosclerosis cardiovascular disease and type 2 diabetes across statin treatment guidelines. *PloS Med*. 2020. Aug 26;17(8):e1003280

95. Kats D, Evenson KR, Zeng D, **Avery CL**, Palta P, Kritchevsky SB, Heiss G. Physical activity from mid- to late-life: duration and intensity. The ARIC Study. In press, *Aging* 2020

94. Martinez-Miller EE, Prather A, Robinson WR, **Avery CL**, Yang YC, Haan MN, Aiello AE. Acculturation, Cognitive Performance and Decline, and Incident Dementia/CIND: The Sacramento Area Latino Study on Aging. In press, *Am J Epidemiol* 2020

†93. Hodonsky CJ, Bien S, Baldassari AR, Raffield L, Highland HM, Sitlani CM, Wojcik GL, Tao R, Graff M, Tang W, Thyagarajan B, Buyske S, Fornage M, Hindorff LA, Li Y, Lan D, Reiner AP, North KE, Roos RJF, Kooperberg C, **Avery CL**. Ancestry-specific associations identified in genome-wide combined-phenotype study of red blood cell traits emphasize benefits of diversity in genomics. In press, *BMC Genomics*, 2020

92. Ntalla I, Weng, L-C, Cartwright JH, Hall AW, Svinbjornsson G, Tucker NR, Choi SH, Chaffin MD, Roselli C, Barnes MR, Mifsud B, Warren HR, Hayward C, Marten J, Cranley JJ, Concas MP, Gasparini P, Boutin T, Kolcic I, Polasek O, Ruden I, Araujo NM, Lima-Costa MF, Ribeiro ALP, Souza RP, Tarazona-Santos E, Giedraitis V, Ingelsson E, Mahajan A, Morris AP, Del Greco F,

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Foco L, Gogele M, Hicks AA, Cook JP, Lind L, Lindgren CM, Sundstrom J, Nelson CP, Riaz MB, Samani NJ, Sinagra G, Ulivi S, Kahonen M, Mishra PP, Mononen N, Nikus K, Caulfield MJ, Dominiczak A, Padmanabhan S, Montasser ME, O'Connell JR, Ryan K, Shuldiner AR, Aeschbacher S, Conen D, Risch L, Theriault S, Hutri-Kahonen N, Lehtimäki T, Lyytiakainen L-P, Raitakari OT, Barnes CLK, Campbell H, Joshi PK, Wilson JF, Isaacs A, Kors JA, van Juijn CM, Huang PL, Gudnason V, Harris TB, Launer LJ, Smith AV, Bottinger EP, Loos RJF, Nadkarni GN, Preuss MH, Correa A, Mei H, Wilson J, Meitinger T, Nuller-Nurasid M, Peters A, Waldenberger M, Mangino M, Spector TD, Rienstra M, van de Vegte YJ, van der Harst P, Verweij N, Kaab S, Schramm K, Sinner MF, Strauch K, Cutler JM, Fatkin D, London B, Olesen M, Roden DM, Shoemaker B, Smith JG, Biggs ML, Bis JC, Brody JA, Psaty BM, Rice K, Sotoodehnia N, De Grandi A, Fuchsberger C, Pattaro C, Pramstaller PP, Ford I, Jukema JW, Macfarlane PW, Trompet S, Dorr M, Felix SB, Wolker U, Weiss S, Havulinna AS, Jula A, Saaksjarvi K, Salomaa V, Guo X, Heckbert SR, Lin HJ, Rotter JI, Taylor KD, Yao J, de Mutsert R, Maan AC, Mook-Kanamori DO, Noordam R, Cucca F, Ding J, Lakatta EG, Qian Y, Tarasov KV, Levy D, Lin H, Newton-Cheh CH, Lunetta KL, Murray AD, Porteous DJ, Smith BH, Stricker BH, Uitterlinden A, van den Berg ME, Haessler J, Jackson RD, Kooperberg C, Peters U, Reiner AP, Whitsel EA, Alonso A, Arking DE, Boerwinkle E, Ehret GB, Soliman EZ, **Avery CL**, Gogarten SM, Kerr KF, Laurie CC, Seyerle AA, Stilp A, Assa S, Said A, van der Ende MY, Lambiase PD, Orini M, Ramirez J, Van Duijvenboden S, Arnar DO, Gudbjartsson DF, Holm H, Sulem P, Thorleifsson G, Thorolfssdottir RB, Thorsteinsdottir U, Benjamin EJ, Tinker A, Stefansson K, Ellinor PT, Jamshidi Y, Lubitz SA, Munroe PB. Multi-ancestry GWAS of the electrocardiographic PR interval identifies 210 loci underlying cardiac conduction. *Nature Communication*, in press. 2020

[†]91. Baldassari AR, Sitlani CM, Highland HM, Arking DE, Buyske S, Darbar D, Gondalia R, Graff M, Guo X, Heckbert SR, Hindorff LA, Hodonsky CJ, Chen Y-DI, Kaplan RC, Peters U, Post W, Reiner AP, Rotter JI, Shohet RV, Sotoodehnia N, Tao R, Taylor KD, Yao J, Kenny EE, Lin HJ, Soliman EZ, Whitsel EA, North KE, Kooperberg C, **Avery CL**. Multi-ethnic genome-wide association study of decomposed cardiac conduction phenotypes illustrates strategies to identify and characterize evidence of shared genetic effects for complex traits. *Circ Precision Med*, in press. 2020

90. Pendergrass SA, Buyske S, Jeff JM, Frase A, Dudek S, Bradford Y, Ambite JL, Avery CL, Buzkova P, Deelman E, Fesinmeyer MD, Haiman C, Heiss G, Hindorff LA, Hsu CN, Jackson RD, Lin Y, Le Marchand L, Matise TC, Monroe KR, Moreland L, North KE, Park SL, Reiner A, Wallace R, Wilkens LR, Kooperberg C, Ritchie MD, Crawford DC. A phenome-wide association study (PheWAS) in the Population Architecture using Genomics and Epidemiology (PAGE) study reveals potential pleiotropy in African Americans. *PLoS One*, 2019. 14(12): e0226771

89. de Las Fuentes L, Sung YJ, Sitlani CM, **Avery CL**, Bartz TM, Keyser C, Evans DS, Li X, Musani SK, Ruiter R, Smith AV, Sun F, Trompet S, Xu H, Arnett DK, Bis JC, Broeckel U, Busch EL, Chen YI, Correa A, Cummings SR, Floyd JS, Ford I, Guo X, Harris TB, Ikram MA, Lange L, Launer LJ, Reiner AP, Schwander K, Smith NL, Sotoodehnia N, Stewart JD, Stott DJ, Stürmer T, Taylor KD, Uitterlinden A, Vasan RS, Wiggins KL, Cupples LA, Gudnason V, Heckbert SR, Jukema JW, Liu Y, Psaty BM, Rao DC, Rotter JI, Stricker B, Wilson JG, Whitsel EA. Genome-wide meta-analysis of variant-by-diuretic interactions as modulators of lipid traits in persons of European and African ancestry. *Pharmacogenomics J*, In press. 2020

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88. Gellert KS, Keil AP, Zeng D, Lesko CR, Aubert RE, **Avery CL**, Lutsey PL, Siega-Riz AM, Windham BG, Heiss G. Reducing the population burden of coronary heart disease by modifying adiposity: Estimates from the Atherosclerosis Risk In Communities (ARIC) Study. *J Am Heart Assoc* 2020. 9(4): e012214
87. Kowalski MH, Qian H, Hou Z, Rosen JD, Tapia AL, Shan Y, Jain D, Argos M, Arnett DK, **Avery CL**, Barnes KC, Becker LC, Bien SA, Bis JC, Blangero J, Boerwinkle E, Bowden DW, Buyske S, Cai J, Cho MH, Choi SH, Choquet H, Cupples LA, Cushman M, Daya M, de Vries P, Ellinor PT, Faraday N, Fornage M, Gabriel S, Ganesh S, Graff M, Gupta N, He J, Heckbert SR, Hidalgo B, Hodonsky CJ, Irvin MR, Johnson AD, Jorgenson E, Kaplan R, Kardia SLR, Kelly TN, Kooperberg C, Lasky-Su JA, Loos RJF, Lubitz SA, Mathias RA, McHugh CP, Montgomery C, Moon J-Y, Morrison AC, Palmer ND, Pankratz N, Papanicolaou GJ, Peralta JM, Peyser PA, Rich SS, Rotter JI, Silverman EK, Smith JA, Smith NL, Taylor KD, Thornton TA, Tiwari HK, Tracy RP, Wang T, Weiss ST, Weng L-C, Wiggins KL, Wilson JG, Yanek LR, Zöllner S, North KE, Auer PL, Raffield LM, Reiner AP, Lu Y. Use of >100,000 NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium whole genome sequences improves imputation quality and detection of rare variant associations in admixed African and Hispanic/Latino populations. 2019, *PloS Genetics*. In press
86. Aburto TC, Gordon-Larsen P, Poti JM, Howard AG, Adair LS, **Avery CL**, Popkin BM. Is a hypertension diagnosis associated with improved dietary outcomes within 2 to 4 years? A fixed-effects analysis from the China Health and Nutrition Survey. Aburto, Tania, P. Gordon-Larsen, J.M. Poti, A.G. Howard, L.S. Adair, C.L. Avery, and B.M. Popkin 2019, *J Am Heart Assoc*. e012703.
85. Irvin MR, Sitlani CS, Bis JA, Whitsel EA, Steward J, Raffield L, Sun F, Liu C-T, Xu H, Cupples AL, Rossing P, Smith A, Noguiera NRZ, Noordam R, Rotter J, Yao J, Li X, Guo X, Limdi N, Lange L, Ahluwalia TS, Arnett DK, **Avery CL**. Genome wide association study of apparent treatment resistant hypertension in the CHARGE consortium: The CHARGE Pharmacogenetics Working Group. In press, *Pharmacogenomics*. 2020
84. Wang Y, Howard AG, Adair LS, **Avery CL**, Wang H, Gordon-Larsen P. Waist circumference change is associated with blood pressure change independent of BMI change. In press, *Obesity*, 2019
83. Swenson BR, Louie T, Lin HH, Mendez-Giraldez R, Below JE, Laurie CC, Kerr KF, Highland HM, Ryckman K, Kooperberg C, Soliman EZ, Seyerle AA, Guo X, Taylor KD, Yao J, Heckbert SR, Petty LE, Cheng S, Below N, Whitsel EA, Hanis CL, Rotter JI, Sofer T, **Avery CL**, Sotoodenhia N. GWAS of QRS Duration Identifies New Loci Specific to Hispanic/Latino Populations. *Plos One*. 2019. Jun 28;14(6):e0217796
- †82. Engeda JC, Stackhouse A, White M, Rosamond WD, Lhachimi SK, Lund JL, Keyserling TC, **Avery CL**. Narrowing the focus to primary prevention populations by broadening the view: Examining the association between statins and diabetes among randomized controlled trials and observational studies. *Diabetes Res Clin Pract*. 2019. May;151:96-105

81. Wojcik GL, Graff M, Nishimura K, Tao R, Haessler J, Gignoux CR, Highland HM, Patel YM, Sorokin EP, **Avery CL**, Belbin GM, Bien SB, Cheng I, Hodonsky CJ, Huckins LM, Jeffs J, Justice AE, Kocarnik JM, Lin BM, Lu Y, Nelson SC, Park S-S L, Preuss M, Richard MA, Schurmann C, Setiawan VW, Vishnu A, Verbanck M, Walker R, Young KL, Zubair N, AMbite JL, Boerwinkle E, Bottinger E, Bustamante CD, Caberto C, Conomos MP, Deelman E, Do R, Doheny K, Fernandez-Rhodes L, Fornage M, Heiss G, Hindorff L, Jackson RD, James R, Laurie CA, Laurie CC, Li Y, Lin DY, Nadkarni G, Pankow J, Pooler LC, Reiner AP, Romm J, Sabati C, Sheng X, Stahl E, Stram D, Thornton TA, Wassel CL, Wilkens LR, Yoneyama S, Buyske S, Haiman C, Kooperberg C, Le Marchand L, Loos RJF, Matise TC, North KE, Peters U, Kenny EE, Carlson CS. Genetic diversity turns a new PAGE in our understanding of complex traits. *Nature*, 2019. Jun;570(7762):514-518
80. Martinez-Miller EE, Prather A, Robinson WR, **Avery CL**, Yang YC, Haan MN, Aiello AE. US acculturation and poor sleep among an intergenerational cohort of adult Latinos in Sacramento, California. *Sleep*. 2019. Mar 1;42(3)
79. Kocarnik JM, Richard M, Graff M, Haessler J, Carlson C, Carty CL, Reiner AP, **Avery CL**, Ballantyne CM, LaCroix AZ, Assimes TL, Barbalic M, Pankratz N, Tang W, Chen D, Pereira R, Bien S, Nishimura K, Best LG, Ambite JL, Cheng I, Crawford D, Hindorff LA, Heiss G, North KE, Haiman CA, Peters U, Le Marchand , Kooperberg C. Discovery, fine-mapping, and conditional analyses of genetic variants associated with C-reactive protein in multiethnic populations using the Metabochip in the Population Architecture using Genomics and Epidemiology (PAGE) study. *Hum Mol Genet*. 2018. Aug 15;27(16):2940-2953
- †78. Hodonsky CJ, Schurrman C, Schick UM, Kocarnik J, Tao R, van Rooij FJA, Wassel C, Buyske S, Fornage M, Hindorff LA, Psaty BM, Ganesh SK, Lin DY, North KE, Kooperberg CL, Reiner AP, Loos R, **Avery CL**. Generalization and fine mapping of RBC trait genetic associations to multi-ethnic populations: The PAGE Study. In press, *Am J Hematology*. 2018
77. van Setten J, Brody J, Campbell H, Del Greco F, Evans DS, Givson Q, Gudbjartsson DF, Kerr FK, Krijthe BP, Muller C, Muller-Nyrasyid M, Nolte IM, Padmanabhan S, Robino A, Smith AV, Sterj M, Swenson B, Tanaka T, Teumer A, Trompet S, Ulivi S, Verweji N, Yin X, Arnar DO, Asselbergs FW, **Avery CL**, Bis J, Butler AM, Blankenberg S, Boerwinkle E, Buckley BM, den Hoed M, Dominczak AF, Ehret GB, Eijgelsheim M, Felix SB, Franco OH, Gharib S, Harris TB, Heckbert S, Holm H, Ilaria G, Lorio A, Kolcic I, Kors JA, Lakatta EG, Launer LJ, Lin HJ, Lin H, Liu Y, Loos R, MacFarlane P, Magnani JW, Mateo I, Meitinger T, Mitchell B, Munzel T, Papanicolaou GJ, Peters A, Pfeufer A, Pramstaller PM, Rotter JI, Rudan I, Samani NJ, Schlessinger D, Aldana CTS, Sinner M, Snieder H, Soliman E, Spector TD, Stott DJ, Strauch K, Tarasov K, Uitterlinden AG, Volker U, Volzke H, Waldenberger M, Wild PS, Zeller T, Alonso A, Bandinelli S, Benjamin EJ, Cucca F, Cummings SR, Dorr M, Ferrucci L, Gasparini P, Gudnason V, Hayward C, Heckbert SR, Hicks AA, Jamshidi Y, Jukema JW, Kaab S, Munroe PB, Parsa A, Polasek O, Psaty BM, Schnabel RB, Sinagra G, Stefansson K, Stricker BH, van der Harst P, van Duijn C, Wilson JF, de Bakker PIW, Isaacs A, Arking DA, Sotoodehnia N. Genome-wide association meta-analysis of PR interval identifies 47 novel loci associated with atrial and atrioventricular electrical activity. *Nat Commun*, 2018.

76. Jarmul J, Pletcher MJ, Hassmiller Lich K, Wheeler SB, Weinberger M, **Avery CL**, Jonas DE, Earnshaw S, Pignone M. Cardiovascular Genetic Risk Testing for Targeting Statin Therapy in the Primary Prevention of Atherosclerotic Cardiovascular Disease: A Cost-Effectiveness Analysis.. Interpreting a 27-SNP cardiovascular genetic risk score in combination with traditional cardiovascular risk factors for prediction of atherosclerotic cardiovascular disease. *Circ Cardiovasc Qual Outcomes*; Apr;11(4): e00417

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26. Wyss AB, Herring AH, **Avery CL**, Weissler MC, Bensen JT, Barnholtz-Sloan JS, Funkhouser 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. PMC Journal – In Process.

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Ellinor PT, Magnani JW, Chen W, Curb JD, Limacher MC, North KE, Reiner AP, Quibrera PM, Schork NJ, Singleton AB, Soliman EZ, Solomon AJ, Chakravarti A, Srinivasan SR, Alonso A, Wallace R, Redline S, Zhang Z-M, Post WS, Zonderman AB, Taylor HA, Murray SS, Ferrucci L, Arking DE, Evans MK, Fox ER, Sotoodehnia N, Heckbert SR, Whitsel EA, Newton-Cheh C. The impact of ancestry and common genetic variants on QT interval in African Americans. *Circ Cardiovasc Genet* 2012; 5(6):647-55. PMID: PMC3568265

21. **Avery CL**, Kucharska-Newton A, Monda KL, Sharrett AR, Mosley TH, Klein BH, Cotch MF, Wong TY, Klein R. Impact of long-term measures of glucose and blood pressure on retinal microvascular characteristics: The Atherosclerosis Risk in Communities (ARIC) Carotid MRI Study. *Atherosclerosis* 2012; 225:412-417. PMID: PMC3513355

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18. **Avery CL**, He QC, North KE, Ambite JL, Boerwinkle E, Fornage M, Hindorff LA, Kooperberg C, Meigs JB, Pankow JS, Pendergrass SA, Psaty BM, Ritchie MD, Rotter JI, Taylor KD, Wilkens LR, Heiss G, Lin DY. A Phenomics-Based Strategy Identifies Loci on *APOC1*, *BRAP*, and *PLCG1* Associated with Metabolic Syndrome Phenotype Domains. *PLoS Genet* 2011; 7(10): e1002322. PMID: PMC3192835

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15. Whitsel EA and **Avery CL**. The Environmental Epidemiology of Atrial Arrhythmogenesis: A Research Agenda. *Journal of Epidemiology and Community Health* 2010; 64(7): 587-90. PMC Journal – In Process.

14. **Avery CL**, Mills KT, Williams R, McGraw KA, Poole C, Smith RL, Whitsel EA. Estimating error in using residential outdoor PM_{2.5} concentrations as proxies for personal exposures: a meta-

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analysis. *Environmental Health Perspectives* 2010; 118(5): 673-8. PMCID: PMC2866684.

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12. **Avery CL**, Mills KT, Williams R, McGraw KA, Poole C, Smith RL, Whitsel EA. Estimating error in using ambient PM_{2.5} concentrations as proxies for personal exposures. *Epidemiology* 2010; 21(2): 215-223. PMC Journal – In Process.

11. North KE, Franceschini N, **Avery CL**, Baird L, Leppert M, Chung J, Hanis C, Boerwinkle E, Volcik K, Grove-Caona M, Gu C, Heiss G, Pankow J, Couper D, Ballantyne C, Kao L, Weder A, Cooper R, Ehert G, Chakravarti A, Hunt SC. Variation in the checkpoint kinase 2 gene is associated with type 2 diabetes in multiple populations. *Acta Diabetologia* 2010; 47 (Suppl 1): 199-207. PMCID: PMC2965317.

10. **Avery CL**, Monda KL, and North KE. Genetic association studies and the effect of misclassification and selection bias in putative confounders. *BMC Proceedings* 2009, 3(Suppl 7):S48. PMCID: PMC2795947.

9. Whitsel EA and **Avery CL**. The association between long-term particulate matter exposure and cardiovascular disease morbidity. United States Environmental Protection Agency. Integrated Science Assessment for Particulate Matter (Second External Review Draft). U.S. EPA, Washington, DC, EPA/600/R-08/139-B; 2009. Available at: <http://cfpub.epa.gov/ncea/cfm/recorddisplay.cfm?deid=210586>.

8. Martin LJ, Woo JG, **Avery CL**, Chen H, North KE. Multiple testing in the genomics era: Findings from Genetic Analysis Workshop 15, Group 15. *Genetic Epidemiology* 2007; 31(S1): S124-S131. PMC Journal – In Process.

7. Lee CR, North KE, Bray MS, **Avery CL**, Mosher MJ, Couper DJ, Coresh J, Folsom AR, Boerwinkle E, Heiss G, Zeldin DC. Genetic variation in endothelial nitric oxide synthase (NOS3), cigarette smoking, and cardiovascular disease risk: an Atherosclerosis Risk in Communities (ARIC) study. *Pharmacogenetics and Genomics* 2006;16: 891-899. PMCID: PMC1978174.

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. PMC Journal – In Process.

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. PMC Journal – In Process.

4. **Avery CL**, Martin LJ, Williams JT, North KE. Accuracy of haplotype estimation in a region of

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low linkage disequilibrium. *BMC Genetics* 2005; 6(Suppl 1):S80. PMCID: 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. PMCID: 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. PMC Journal – In Process.

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. PMCID: PMC139271.

TEACHING EXPERIENCE

University of North Carolina at Chapel Hill, Department of Epidemiology

Lead instructor	Epidemiologic Analysis of Binary Data, 2013- Number of students: 33-51
	Population Burden Measures in CVD Epidemiology, 2012- Number of students: 10-15
Co-instructor	Perspectives in Epidemiology and Public Health, 2014-15 Number of students: 10
	Theory and Quantitative Methods in Epidemiology, 2012 Number of students: 45
Invited lecturer	Cardiovascular Disease Epidemiology, 2009-11, 15- Number of students: ~15
	Fundamentals of Epidemiology, 2014, 16 Number of students: ~45
	Genetic Epidemiology: Methods and Applications, 2009-13 Number of students: ~15
	Design of Clinical Research, 2012 Number of students: ~10
	Pathobiology of CVD Pathology, 2013, 15, 16 Number of students: ~5

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PopMED Forum (North Carolina State University), 2015
Number of students: ~20

University of Ulm, Germany (Summer Institute)

Lead instructor Epidemiologic Analysis of Binary Data, 2018
Number of students: 14

Genetic Epidemiology, 2011
Number of students: 30

POSTDOCTORAL MENTORING

Current: 1) Moa Park Lee (2018-)

Completed:
1) Raul Mendez Giraldez (2015-17)

GRADUATE STUDENT MENTORING

Current:

Dissertation chair:

- 1) Epidemiology: Antoine Baldassari (expected graduation: 01/2022)
- 2) Epidemiology: Moa Park Lee (expected graduation: 05/2023)
- 3) Epidemiology: Brooke Staley (expected graduation: 08/2022)
- 4) Epidemiology: Carolina Downie (expected graduation: 08/2023)
- 5) Epidemiology: Anna Ballou (expected graduation: 08/2025)

Dissertation committee member:

- 1) Epidemiology: Audrey Renson
- 2) Nutrition: Natalia Rebolledo Fuentealba

Completed:

Dissertation chair (year graduated):

- 1) Epidemiology: Amanda Seyerle (2016)
- 2) Epidemiology: Joseph Engeda (2019)
- 3) Epidemiology: Chani Hodonsky (2019)
- 4)

Masters paper chair (year graduated):

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

Dissertation committee member (year graduated):

- 1) Epidemiology: Quaker Harmon (2012)
- 2) Biostatistics: Qianchuan (Chad) He (2012)
- 3) Epidemiology: Annah Wyss (2013)
- 4) Epidemiology: Evan Busch (2015)
- 5) Epidemiology: Sara Jones (2015)

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- 6) Epidemiology: Kapuaola Gellert (2016)
- 7) Epidemiology: Anna Bauer (2017)
- 8) Health Policy: Jamie Jarmul (2017)
- 9) Epidemiology: Aderonke Akinkugbe (2017)
- 10) Epidemiology: Shakia Hardy (2017)
- 11) Epidemiology: Erline Miller (2018)
- 12) Nutrition: Tania Aburto Soto (2019)
- 13) Nutrition: Yiqing Wang (2020)

Masters paper second reader (year graduated):

- 1) Epidemiology: Katelyn Holliday (2011)

UNDERGRADUATE STUDENT MENTORING

Current: 1) Sofia Dimos (2018-)

Completed:

- 1) 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

PROFESSIONAL SERVICE

Invited Grant Reviews

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

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

Advisory Committees

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

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 Cardiovascular Genetics (2012 -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)

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Scientific Reports (2016 -1)

Society for Epidemiologic Research abstract review (2011, 2012)

Conference Contribution

Chair of 2021 Society for Epidemiology Session “So much more than GWAS: How genetics can strengthen causal inference”

Co-chair of 2011 North American Congress of Epidemiology symposium: “What role does the epidemiologist play in genetic epidemiology?”

MEMBERSHIPS

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

INVITED SPEAKER

2019 UAB CCVC 8th Annual Symposium New Horizons in CVD: A focus on Precision and Personalized Medicine: “Leveraging innovations in study design to empower metabolomics studies of CVD”
2019 NHLBI K to R01 Investigators meeting: “How persistence, mentorship, networking, and authenticity netted me my first R01(s)”
2019 Society for Epidemiology Research (SER): “How studying racially/ethnically diverse populations informs causal inference”
2012 University of North Carolina Cardiovascular Grand Rounds: “Genomic studies of the QT interval in admixed populations”

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