Matthew Shane Loop, PhD FAHA

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Education

Postdoctoral Fellowship, Department of Epidemiology, UAB Vascular Biology and Hypertension Program, UAB, April 2015 - August 2016

Advisors: Emily B. Levitan, ScD (primary) and Paul M. Muntner, PhD (secondary)

PhD in Biostatistics, University of Alabama at Birmingham (UAB), May 2015

Advisor: Leslie A. McClure, PhD

M.S. in Biostatistics, UAB, May 2012

Advisor: Leslie A. McClure, PhD

B.S. Biology, University of Alabama, *cum laude*, May 2010

Positions

Assistant Professor (tenure-track), Department of Health Outcomes Research and Policy, Harrison College of Pharmacy, Auburn University, August 2022 - present

Adjunct Assistant Professor, Division of Pharmacotherapy and Experimental Therapeutics, UNC Eshelman School of Pharmacy, University of North Carolina at Chapel Hill, August 2022 - 2025

Research Assistant Professor (fixed-term), Division of Pharmacotherapy and Experimental Therapeutics, UNC Eshelman School of Pharmacy, University of North Carolina at Chapel Hill, August 2020 - August 2022

Clinical Assistant Professor (fixed-term), Department of Biostatistics, Gillings School of Global Public Health, University of North Carolina at Chapel Hill, September 2016 - July 2020

Peer-Reviewed Papers

* Indicates student I advised on the project. For someone with statistical training, being second author generally indicates you drove the data analysis strategy for the study.

55. Pittman MC*, Perez AD*, Tanni KA, Sanderson KR, Park J, Feig DI, Laughon MM, & **Loop MS** (2025). "Dosing trajectories of antihypertensive agents among preterm neonates: A retrospective, cross-sectional analysis." *PLoS One* 20(12):e0336994.

54. Xue X, **Loop MS**, Johnson B, Ngorsuraches S, Zheng J, & Qian J (2025). "Comparative real-world survival of first-line atezolizumab, nivolumab, and pembrolizumab in older patietns with metastatic non-small cell lung cancer." *Journal of Managed Care and Specialty Pharmacy* 31(11): 1123 - 1134.

53. Yang H, **Loop MS**, Hohmann N, Westrick S, Ngorsuraches S, & Garza K (2025). "Reading the drug facts label associated with the use of over-the-counter medicine among young adults." *American Journal of Pharmaceutical Education* 89(11).

52. Urrutia RP, **Loop MS**, Johnson JD, Wang TY, Price TM, Daubert MA (2025). "Blood pressure 15 to 90 days after a hypertensive disorder of pregnancy and later hypertension." *Hypertension* [Internet]. 2025 Oct 6. Available from: http://dx.doi.org/10.1161/HYPERTENSIONAHA.124.24393.

51. **Loop MS**, Urrutia RP, Johnson JD, Price TM, Wang TY, & Daubert MA (2025). "Factors associated with the severity of the hypertensive disorders of pregnancy: A cross-sectional study." *Journal of Women's Health.* doi: 10.1177/15409996251389913.

50. Harris SC, **Loop MS**, Tanni KA, Jackson KD, & White CY (2025). "Wellness in the invisible workforce: a pilot well-being study in black, indigenous, and people of color (BIPOC) women faculty in the pharmacy and pharmaceutical sciences." *BMC Med Educ.* 25(1):674.

49. Jenkins TW, Fitzgerald JE, Park J, Wilson AM, Berry KL, Wong KS, Houry WA, Lee I, Maksimenko AV, Panizzi PR, Maxuitenko YY, **Loop MS**, Mitra AK, & Kisselev AF (2025). "Highly specific Immunoproteasome inhibitor M3258 induces proteotoxic stress and apoptosis in KMT2A:: AFF1 driven acute lymphoblastic leukemia." *Scientific Reports.* 15(1):114.

48. Blackstock M, Park J, **Loop MS**, Hyte M, Perkins A, Gunter SG, Mathews L, & Huber L (2025). "Comparative study on the time trends of antimicrobial resistance at animal and human hospitals in a shared community." *One Health.* 20: 101096.

47. Perez AD*, Pittman M-C*, Tanni KA, Sanderson KR, Park J, Feig DI, Laughon MM, & **Loop MS** (2025). "Sequence of antihypertensive medications used in preterm infants with hypertension: a cross-sectional study." *PLOS ONE* 20(4): e0320002.

46. Banez MT, Atienza S, Butts A, Derba M, Dicke K, Hverstick K, Heron BB, Cimino SK, **Loop MS**, Hough S, Merten JA, Moore DC, Shah V, Taucher KD, Z JM, & Mahmoudjafari Z (2024). "Oncololgy stewardship practice in the United States: A Hematology/Oncology Pharmacy Association national survey." *Journal of Oncology Pharmacy Practice.* 10781552241265280.

45. Heeren FA, Himadi M, Flood-Grady E, Xu K, **Loop MS**, Francois M, Louis-Jacques AF, Thompson L, Cardel MI, Gillespie Y, DeCicco L, & Lemas DJ (2024). "Recruitment and retention of participants with obesity into a longitudinal birth cohort: the Breastfeeding and Early Child Health (BEACH) study." *International Journal of Obesity*: 1-8.

44. Tu ZH, Perez AD, Diaz TE, **Loop MS**, & Clarke M. (2024). "Safety and efficacy of direct oral anticoagulants vs warfarin in patients with obesity and venous thromboembolism: a retrospective analysis." *The Texas Heart Institute Journal.* 51(1): e238260.

43. Daubert MA, Stebbins A, Peragallo-Urrutia R, Chiswell K, **Loop MS**, Harding C, Price T, & Wang TY (2024). "Early Postpartum Blood Pressure Screening is Associated with Increased Detection of Cardiovascular Risk Factors in Women with Hypertensive Disorders of Pregnancy." *American Heart Journal.* 273: 130-139.

42. **Loop MS**, Lotspeich SC, Garcia TP, & Meyer ML (2024). "Should regression calibration or multiple imputation be used when calibrating different devices in a longitudinal study?" *American Journal of Epidemiology.* Published online July 2024. doi: 10.1093/aje/kwae169.

41. Murphy WA, Diehl AM, **Loop MS**, Fu D, Guy CD, Abdelmalek MF, Karachaliou GS, Sjöstedt N, Neuhoff S, Honkakoski P, & Brouwer KLR (2023). "Alterations in Zonal Distribution and Plasma Membrane Localization of Hepatocyte Bile Acid Transporters in NAFLD Patients". *Hepatology Communications. Accepted.*

40. Liu W, Patel K, Wang Y, Nodzenski M, Nguyen A, Teramura G, Higgins HA, Hoogeveen RC, Couper D, Fu X, Konkle BA, **Loop MS**, & Dong J-F (2023). "Dynamic and Functional Linkage between von Willebrand Factor and ADAMTS-13 with Aging: An ARIC Study". *Journal of Thrombosis and Haemostasis* 21(12): 3371-3382.

39. Garvie PA, **Loop MS**, Zhou CW, McCumber M, Woods SP, & Nichols SL (2023). "Neuropsychological Correlates of Adherence in Youth with Behaviorally Acquired HIV." *AIDS and Behavior* 27: 3813-3829.

38. Lemas DJ, Layton C, Ballard H, Xu K, Smulian JC, Gurka M, **Loop MS**, Smith EL, Reeder CF, Louis-Jacques A, Hsiao CJ, Cacho N, & Hall J (2023). Perinatal Health Outcomes Across Rural and Nonrural Counties Within a Single Health System Catchment. *Womens Health Reports.* 4(1): 16981.

37. Garcia JE, Mulrenin IR, Nguyen AB, **Loop MS**, Daubert MA, Urrutia R, & Lee CR (2023). "Antihypertensive medication use during pregnancy in a real-world cohort of patients diagnosed with a hypertensive disorder of pregnancy". *Frontiers in Cardiovascular Medicine* 10:1225251. doi: 10.3389/fcvm.2023.1225251

36. Bayly JE, Panigrahi A, Rodriguez EJ, Gallo LC, Perreira KM, Talavera GA, Estrella ML, Daviglus ML, Castaneda S, Bainter SA, Chambers EC, Savin KL, **Loop MS**, & Perez-Stable EJ (2022). "Perceived Neighborhood Factors, Health Behaviors, and Related Outcomes in the Hispanic Community Health Study/Study of Latinos". *Preventive Medicine* 164: 107267.

35. Cardel MI, **Loop MS**, Brown AW, Brown MMB, Newsome F, Scott L, Lemas DJ, & Krukowski RA (2022). "Implementation of a Family Support Grant to Subsidize Caregiving Needs and Support Attendance at American Society for Nutrition's Annual Professional Scientific Conference". *Current Developments in Nutrition* 6(6): nzac076. doi: https://doi.org/10.1093/cdn/nzac076.

34. Zhao Y, Haney MJ, Fallon JK, Rodriguez M, Swain CJ, Arzt CJ, Smith PC, **Loop MS**, Harrison EB, El-Hage N, & Batrakova EV (2022). "Using Extracellular Vesicles Released by GDNF-Transfected Macrophages for Therapy of Parkinson Disease." *cells* 11(12), 1933. doi: https://doi.org/10.3390/cells11121933.

33. Gerhart JG, Careño FO, **Loop MS**, Lee CR, Edington AN, Sinha J, Kumar KR, Kirkpatrick CM, Hornik CP, & Gonzalez D, on behalf of the Best Pharmaceuticals for Children Act Pediatric Trials Network Steering Committee (2022). "Use of Real-World Data and Physiologically-Based Pharmacokinetic Modeling to Characterize Enoxaparin Disposition in Children with Obesity". *Clinical Pharmacology & Therapeutics* 112(2): 391-403.

32. Tsao CW, Aday AW, Almarzooq ZI, Alonso A, Beaton AZ, Bittencourt MS, Boehme AK, Buxton AE, Carson AP, Commodore-Mensah Y, Elkind MSV, Evenson KR, Eze-Nliam C, Ferguson JF, Generoso G, Ho JE, Kalani R, Khan SS, Kissela BM, Knutson KL, Levine DA, Lewis TT, Liu J, **Loop MS**, Ma J, Mussolino ME, Navaneethan SD, Perak AM, Poudel R, Rezk-Hanna M, Roth GA, Schroeder EB, Shah SH, Thacker EL, VanWagner LB, Virani SS, Voecks JH, Wang N-Y, Yaffe K, & Martin SS; on behalf of the American Heart Association Council on Epidemiology and Prevention Statistics Committee and Stroke Statistics Subcommittee (2022). Heart disease and stroke statistics2022 update: a report from the American Heart Association [published online ahead of print Wednesday, January 26, 2022]. Circulation. doi: 10.1161/CIR.0000000000001052.

31. Kucharska-Newton AM, **Loop MS**, Bullo M, Moore C, Haas SW, Wagenknecht L, Whitsel E, & Heiss G (2021). Use of troponins in the classification of myocardial infarction from electronic health records. The Atherosclerosis Risk in Communities (ARIC) Study. *International Journal of Cardiology.* In press.

30. Mulrenin IR, Garcia JE, Fashe MM, **Loop MS**, Daubert MA, Urrutia RP, & Lee CR (2021). The impact of pregnancy on antihypertensive drug metabolism and pharmacokinetics: current status and future directions. *Expert Opinion on Drug Metabolism and Toxicology. In press.*

29. Lemas DJ, **Loop MS**, Duong M, Schleffer AB, Collins C, Bowden JA, Du X, Patel KU, Ciesielski AL, Ridge Z, Wagner J, Subedi B, & Delcher C (2021). Estimating drug consumption during a college sporting event from wastewater using liquid chromatography mass spectrometry. *Science of the Total Environment* 764:143963. doi: 10.1016/j.scitotenv.2020.143963.

28. Goff DC Jr, Khan SS, Arnett DK, Carnethon MR, Labarthe DR, **Loop MS**, Luepker RV, McConnell MV, Mensah GA, Mujahid M, O'Flaherty M, Prabhakaran D, Roger VL, Rosamond WD, Sidney S, Wei GS, Wrigh JS, & Lloyd-Jones DM (2021). Bending the curve in cardiovascular disease mortality: Bethesda +40 and beyond. *Circulation* 143(8): 837-851.

27. Virani SS, Alonso A, Aparicio HJ, Benjamin EJ, Bittencourt MS, Callaway CW, Carson AP, Chamberlain AM, Cheng S, Delling FN, Elkind MSV, Evenson KR, Ferguson JF, Gupta DK, Khan SS, Kissela BM, Knutson KL, Lee CD, Lewis TT, Liu J, **Loop MS**, Lutsey PL, Ma J, Mackey J, Martin SS, Matchar DB, Mussolino ME, Navaneethan SD, Perak AM, Roth GA, Samad Z, Satou GM, Schroeder EB, Shah SH, Shay CM, Stokes A, VanWagner LB, Wang N-Y, Tsao CW; on behalf of the American Heart Association Council on Epidemiology and Prevention Statistics Committee and Stroke Statistics Subcommittee (2021). Heart disease and stroke statistics2021 update: a report from the American Heart Association. *Circulation.* 143:e00e00. doi: 10.1161/CIR.0000000000000950.

26. Kohn JN, **Loop MS**, Kim-Chang JJ, Garvie PA, Sleasman JW, Fischer B, Rendina HJ, Woods SP, Nichols SL, Hong S (2021). Trajectories of depressive symptoms, neurocognitive function and viral suppression with antiretroviral therapy among youth with HIV over 36 months. *JAIDS* 87(2): 851-859.

25. DeMonte JB, Neilan AM, **Loop MS**, Ciaranello AL, & Hudgens MG (2021). Rapid report on estimating incidence from cross-sectional data. *Annals of Epidemiology* 53: 106 - 108. e1.

24. Bell GJ*, **Loop MS**, Mvalo T, Juliano JJ, Mofolo I, Kamthunzi P, Tegha G, Lievens M, Bailey J, Emch M, & Hoffman I (2020). Environmental modifiers of RTS,S/AS01 malaria vaccine efficacy in Lilongwe, Malawi. *BMC Public Health.* 20:910. doi: 10.1186/s12889-020-09039-z.

23. Burroughs Peña MS, Uwamungu JC, Bulka CM, Swett K, Perreira KM, Kansal MM, **Loop MS**, Hurwitz BE, Daviglus M, Rodriguez CJ (2020). Occupational Exposures and Cardiac Structure and Function: ECHO-SOL (Echocardiographic Study of Latinos). *Journal of the American Heart Association* 9:e016122. doi: 10.1161/JAHA.120.016122.

22. **Loop MS**, Van Dyke MK, Chen L, Brown TM, Duran RW, Safford MK, Levitan EB (2020). Evidence-based beta blocker use associated with lower heart failure readmission and mortality, but not all-cause readmission, among Medicare beneficiaries hospitalized for heart failure with reduced ejection fraction. *PLOS ONE* 15(7):e0233161. doi:10.1371/journal.pone.0233161.

21. Bell GJ*, **Loop MS**, Topazian H, Hudgens M, Mvalo T, Juliano JJ, Kamthunzi P, Tegha G, Mofolo I, Hoffman I, Bailey JA, Emch M (2020). Case Reduction and Cost-Effectiveness of the RTS,S Malaria Vaccine Alongside Bed Nets in Lilongwe, Malawi. *Vaccine* 38: 4079 - 4087.

20. Ricardo AC, **Loop MS**, Gonzalez II F, Lora CM, Chen J, Franceschini N, Kramer HJ, Toth-Manikowski S, Talavera GA, Daviglus ML, Lash JP. Incident Chronic Kidney Disease Risk Among U.S. Hispanics/Latinos: The Hispanic Community Health Study/Study of Latinos (HCHS/SOL). *J Am Soc Nephrol.* 31:1315-1324.

19. Virani SS, Alonso A, Benjamin EJ, Bittencourt MS, Callaway CW, Carson AP, Chamberlain AM, Chang AR, Cheng S, Delling FN, Djousse L, Elkind MSV, Ferguson JF, Fornage M, Khan SS, Kissela BM, Knutson KL, Kwan TW, Lackland DT, Lewis TT, Lichtman JH, Longenecker CT, **Loop MS**, Lutsey PL, Mar-tin SS, Matsushita K, Moran AE, Mussolino ME, Perak AM, Rosamond WD, Roth GA, Sampson UKA, Satou GM, Schroeder EB, Shah SH, Shay CM, Spartano NL, Stokes A, Tirschwell DL, VanWagner LB, Tsao CW; on behalf of the American Heart Association Council on Epidemiology and Prevention Statistics Committee and Stroke Statistics Subcommittee. Heart disease and stroke statistics 2020 update: a report from the American Heart Association. *Circulation.* 2020;141:e1e458. doi: 10.1161/CIR.0000000000000757.

18. Hill BJ, Motley DN, Rosentel K, VandeVusse A, Garofalo R, Schneider JA, Kuhns LM, Kipke MD, Reisner S, Rupp BM, Sanchez M, McCumber M, Renshaw L, **Loop MS** (2020). An employment intervention program (Work2Prevent) for young men who have sex with men and transgender youth of color (Phase 1): Protocol for determining essential intervention components using qualitative interviews and focus groups. *JMIR Research Protocols* 9(8):e16384. doi: 10.2196/16384.

17. Hill BJ, Motley DN, Rosentel K, VandeVusse A, Garofalo R, Schneider JA, Kuhns L, Kipke M, Reisner S, Rupp BM, Sanchez M, McCumber M, Renshaw L, West Goolsby R, **Loop MS**. Work2Prevent: Protocol for employment as HIV prevention for young men who have sex with men (YMSM) and transgender youth of color Phase 2 (ATN 151). *JMIR Research Protocols* 9(8):e16401. doi: 10.2196/16401.

16. Kim-Chang JJ, Donovan K*, **Loop MS**, Hong S, Fischer B, Venturi G, Garvie PA, Kohn J, Rendina HJ, Woods SP, Goodenow MM, Nichols SL, & Sleasman JW (2019). Higher soluble CD14 levels are associated with lower visuospatial memory performance in Youth with HIV (YWH). *AIDS* 33(15): 2363 - 2374. doi: 10.1097/QAD.0000000000002371

15. Benjamin EJ, Muntner P, Alonso A, Bittencourt MS, Callaway CW, Carson AP, Chamberlain AM, Chang AR, Cheng S, Das SR, Delling FN, Djousse L, Elkind MSV, Ferguson JF, Fornage M, Jordan LC, Khan SS, Kissela BM, Knutson KL, Kwan TW, Lackland DT, Lewis TT, Lichtman JH, Longenecker CT, **Loop MS**, Lutsey PL, Martin SS, Matsushita K, Moran AE, Mussolino ME, OFlaherty M, Pandey A, Perak AM, Rosamond WD, Roth GA, Sampson UKA, Satou GM, Schroeder EB, Shah SH, Spartano NL, Stokes A, Tirschwell DL, Tsao CW, Turakhia MP, VanWagner LB, Wilkins JT, Wong SS, & Virani SS; on behalf of the American Heart Association Council on Epidemiology and Prevention Statistics Committee and Stroke Statistics Subcommittee. Heart disease and stroke statistics - 2019 update: a report from the American Heart Association [published online ahead of print January 31, 2019]. *Circulation*. doi: 10.1161/CIR.0000000000000659.

14. Estrella ML, Rosenberg NI, Durazo-Arvizu RA, Gonzalez HM, **Loop MS**, Singer RH, Lash JP, Castaeda SF, Perreira KM, Eldeirawi K, Daviglus ML (2018). The association of employment status with ideal cardiovascular health factors and behaviors among Hispanic/Latino adults: Findings from the Hispanic Community Health Study/Study of Latinos (HCHS/SOL). *PLOS ONE* 27;13(11):e0207652. doi: 10.1371/journal.pone.0207652. eCollection 2018. PubMed PMID: 30481192.

13. Casagrande SS, Menke A, Aviles-Santa L, Gallo LC, Daviglus M, Talavera GA, Castaneda SF, Perreira K, **Loop MS**, Tarraf W, Gonzalez HM, & Cowie CC (2018). Factors associated with undiagnosed diabetes among adults with diabetes: Results from the Hispanic Community Health Study/Study of Latinos (HCHS/SOL). *Diabetes Research and Clinical Practice* 146: 258-266.

12. **Loop MS**, Van Dyke MK, Chen L, Safford MM, Kilgore ML, Brown TM, Durant RW, Levitan EB (2018). Low utilization of beta blockers among Medicare beneficiaries hospitalized for heart failure with reduced ejection fraction. *Journal of Cardiac Failure*. doi:10.1016/j.cardfail.2018.10.00

11. Goyal P, **Loop MS**, Chen L, Brown TM, Durant RW, Safford MM, & Levitan EB (2018). Causes and Temporal Patterns of 30-day Readmission Among Older Adults Hospitalized with Heart Failure. *Journal of the American Heart Association* 7 (9), e007785.

10. **Loop MS**, McClure LA, Levitan EB, Al-Hamdan MZ, Crosson WL, & Safford MM (2017). Fine particulate matter and incident coronary heart disease in the REGARDS cohort. *American Heart Journal* 197: 94-102.

9. Bromfield SG, Booth, III, JN, **Loop MS**, Schwartz JE, Seals SR, Thomas SJ, Ming Y-I, Ogedegbe G, Shimbo D, & Muntner P (2017). Evaluating different criteria for defining a complete ambulatory blood pressure monitoring recording: Data from the Jackson Heart Study. *Blood Pressure Monitoring* 23 (2): 103-111.

8. Levitan EB, Van Dyke MK, **Loop MS**, O'Beirne R, & Safford MM (2017). Barriers to beta-blocker use and up-titration among patients with heart failure with reduced ejection fraction. *Cardiovascular Drugs and Therapy* 31 (5-6), 559-564.

7. Sauer CG, **Loop MS**, Venkatexwaran S, Tangpricha V, Ziegler TR, Dhawan A, McCall C, Bonkowski E, Mack DR, Boyle B, Griffiths A, Leleiko NS, Keljo DJ, Markowitz J, Baker SS, Rosh J, Baldassano RN, Davis S, Patel S, Wang J, Marquis A, Spada KL, Kugathasan S, Walters T, Hyams JS, & Denson LA (2017). Free and bioavailable 25-hydroxyvitamin D concentrations are associated with disease activity in pediatric patients with newly diagnosed treatment naive ulcerative colitis. *Inflammatory Bowel Diseases* 24 (3), 641-650.

6. McClure LA, **Loop MS**, Crosson W, Kleindorfer D, Kissela B, & Al-Hamdan M (2017). Fine Particulate Matter (PM2.5) and the Risk of Stroke in the REGARDS Cohort. *Journal of Stroke and Cerebrovascular Diseases* 26(8): 1739-1744.

5. **Loop MS**, Howard G, de los Campos G, Al-Hamdan MZ, Safford MM, Levitan EB, & McClure LA (2017). Heat maps of hypertension, diabetes, and smoking in the continental US. *Circulation: Cardiovascular Quality and Outcomes* **10**:e003350-00. doi: 10.1161/CIRCOUTCOMES.116.003350.

4. **Loop MS**, Van Dyke MK, Chen L, Brown TM, Durant RW, Safford MM, and Levitan EB (2016). Comparison of Length of Stay, 30-Day Mortality, and 30-Day Readmission Rates in Medicare Patients With Heart Failure and With Reduced versus Preserved Ejection Fraction. *American Journal of Cardiology* 118(1): 79 - 85.

3. **Loop MS** & McCLure LA (2015). Testing for clustering at many ranges inflates family-wise error rate (FWE). *International Journal of Health Geographics* **14**(4): doi: 10.1186/1476-072X-14-4.

2. **Loop MS**, Kent ST, Al-Hamdan MZ, Crosson WL, Estes SM, Estes, Jr. MG, Quattrochi DA, Hemmings SN, Wadley VG, & McClure LA (2013). Fine particulate matter and incident cognitive impairment in the REasons for Geographic and Racial Differences in Stroke (REGARDS) cohort. *PLoS ONE*. doi: 10.1371/journal.pone.0075001

1. **Loop MS**, Wood AC, Thomas AS, Dhurandhar EJ, Shikany JM, Gadbury GL, & Allison DB (2012). Submitted for your consideration: potential advantages of a novel clinical trial design and initial patient reaction. *Front. Gen.* **3**:145. doi: 10.3389/fgene.2012.00145.

Current funding

Arterial stiffness and brain health in African Americans
R01AG062488, National Institute of Aging 2025-05-01 to 2026-04-30
Meyer (PI)
Role: Co-Investigator (15%)
This study is focused on the stiffening of the arteries and the associated structural damage to small vessels in the brain and reduced cognitive function that precede cognitive impairment and Alzheimer's disease and related dementias. We propose to add a measure of artery stiffness to the 2020-2022 re-examination of the Jackson Heart Study; information on risk factors, damage to small vessels in the brain and cognitive performance will come from the existing study and as well as measures of artery stiffness in subset of participants that also participated in the 2011-2013 visit of the Atherosclerosis Risk in Communities-Neurocognitive study. This study will provide new information on how stiffening of the arteries relate to brain structure and function in African Americans that can inform efforts to reduce health disparities and to identify potential targets to lower the risk of cognitive impairment and Alzheimer's disease and related dementias.

Pharmacist-led transitions of care intervention to address infectious disease tests pending at discharge (TPAD)
RSP Pilot Award, Auburn University 2025-06-01 to 2027-05-31
Covington (PI)
Role: Co-Investigator (2.4%)
This single-center, retrospective study will compare antibiotic prescriptions and clinical outcomes before and after initiating the pharmacist-led TPAD intervention. The goal of our project is to assess the efficacy of this pharmacist-led service in improving antimicrobial management during transitions of care.

Previous funding

Rates of private well use and cardiovascular disease mortality in Alabama
United States Geological Survey 2024-09-15 to 2025-09-14
Loop/Ojeda (PI)
Role: Principle Investigator (10%)
This study is focused on understanding whether rates of private well use in Alabama, at the level of Census block group, are related to rates of cardiovascular disease mortality, including: hypertension mortality, ischemic heart disease mortality, and stroke/cerebrovascular disease mortality.

Well-being initiative for women faculty of color to promote professional advancement in pharmacy and pharmaceutical sciences research
Genentech, Inc 2021-01-01 to 2023-03-31
White (PI)
Role: Co-Investigator (7.5%)

Interindividual variability in drug metabolism in ethnically diverse populations
1R35GM143044-01, National Institute of General Medical Sciences 2021-07-01 to 2026-06-30
Jackson (PI)
Role: Co-Investigator (5%)
The goal of this proposal is to improve our understanding of how genetic and non-genetic factors affect drug metabolism and drug response in patients from understudied ethnic backgrounds. The proposed projects will investigate population-specific CYP genetic variants and novel phenotypic biomarkers to accurately quantify individual drug metabolism capacity in understudied ethnic populations.

Cell-based platform for gene delivery to the brain
R01NS102412, National Institute of Neurological Disorders and Stroke 2018-03-01 to 2022-11-30
Batrakova (PI)
Role: Co-Investigator (2%)
These studies will provide fundamental insights into how PBM interact with brain cells and facilitate horizontal gene transfer upon neurodegeneration, potentially opening up other cell-based gene delivery systems to the CNS and beyond.

Extracellular vesicles for CNS delivery of therapeutic enzymes to treat lysosomal storage disorders
R01NS112019 2019-09-01 to 2024-06-30
Batrakova (PI)
Role: Co-Investigator (2%)
Batten disease is a class of Lysosomal Storage Diseases (LSDs) that affects primarily children, who suffer without effective treatment options of enzyme replacement therapy (ERT). Our approach exploits the extracellular vesicles (EVs) released by specialized cells of the immune system, macrophages, as a platform for efficient and targeted brain delivery of therapeutic lysosomal enzymes. Successful development of this treatment modality would not only change the lives of LSDs patients, but could also lead to similar therapies for other diseases of the CNS.

Estimating patterns in the geographic variation and the social determinants of health that impact breastfeeding outcomes using natural language processing and electronic health records
UF Clinical and Translational Research Institute Grant 2020-07-01 to 2021-06-30
Lemas (PI)
Role: Co-Investigator
The objective of this study is to leverage mom-baby linked EHR and biomedical informatics to estimate geospatial patterns in breastfeeding and characterize the SDoH that impact breastfeeding outcomes in

vulnerable and hard-to-reach populations.

Optimizing Postpartum Cardiovascular Care in Women with Hypertensive Disorders of Pregnancy
Duke Clinical and Translational Science Institute 2019-07-01 to 2020-12-31
Daubert (Co-PI), Urrutia (Co-PI)
Role: Co-Investigator

Adolescent Medicine Trials Network for HIV/AIDS Interventions (ATN) Coordinating Center Supplement
1 U24 HD089880-01S1, E. K. Shriver National Institute of Child Health and Human Dev 2016-09-30 to present
LaVange (PI)
Role: Co-Investigator
The goal of this U24 application is to establish a Coordinating Center for the next phase of the Adolescent Medicine Trials Network for HIV/AIDS Interventions (ATN) sponsored by the NIH. The objective of ATN is to increase awareness among at-risk youth of their HIV status and, for those with HIV, achieve linkage, engagement and retention in the care continuum.

PeRiodontal Treatment to Eliminate Minority InEquality and Rural Disparities in Stroke
16-2910 POUSC01-2000, National Institute on Minority Health and Health Disparities 2015-07-01 to 2020-06-30
Sen (PI)
Role: PI of Data Coordinating Center
UNC will be a clinical site (Neurology and Dentistry), and provide entire project coordination (CSCC) for this phase III randomized controlled trial to test whether intensive periodontal treatment reduces the risk of recurrent vascular events amongst ischemic stroke and TIA survivors.

Atherosclerosis Risk in Communities (ARIC) Study - Coordinating Center
HHSN268201700001I, National Heart, Lung and Blood Institute 2016-11-15 to 2021-11-14
Couper (PI)
Role: Co-Investigator
The Atherosclerosis Risk in Communities Study (ARIC), sponsored by the NHLBI, is a prospective epidemiologic study conducted in four U.S. communities. ARIC is designed to investigate the etiology and natural history of atherosclerosis, the etiology of clinical atherosclerotic diseases, and variation in cardiovascular risk factors, medical care and disease by race, gender, location, and date.

VWF Biology and Disease Associations
Puget Sound Blood Center Research Institute 2015-06-01 to 2020-05-31
Dong (PI)
Role: Co-Investigator
The studies proposed in this application are designed to improve our understanding of the role in sickle cell disease of a large, sticky plasma protein called von Willebrand factor (VWF).

Epidemiologic Determinants of Cardiac Structure and Function Among Hispanics (ECHO-SOL2)
2 R56 HL104199-05, National Heart, Lung and Blood Institute 2015-09-14 to 2018-05-31
Rodriguez (PI)
Role: PI of Data Coordinating Center
The proposed research represents a novel approach to understanding how progression o fHF risk factors (from pre-DM to DM, pre-HTN to HTN or from normal BMI to obesity) relate to changes in cardiac phenotypes and potentially to clinical HF.

Hispanic Community Health Study / Study of Latinos (HCHS/SOL): Coordinating Center HHSN2682013000011, National Heart, Lung and Blood Institute 2013-06-01 to 2019-05-31
Cai (PI)
Role: Co-Investigator
This is an application for the University of North Carolina at Chapel Hill (UNC) to serve as the coordinating center for the Hispanic Community Health Study (HCHS). The HCHS study objectives are to identify the prevalence of and risk factors for diseases, disorders, and conditions in Hispanic populations and to determine the role of acculturation and disparities in the prevalence and development of these conditions. The HCHS coordinating center will provide operational and scientific coordination for the field centers to ensure that the research objectives of the study are met.

Predicting Response to Standard Pediatric Colitis Therapy: The PROTECT Study
1-U01 DK095745-01, National Institute of Diabetes and Digestive and Kidney Diseases 2012-07-01 to 2017-07-31
Hyams (PI)
Role: Co-Investigator
We hypothesize that a combination of clinical, genetic, and immunologic tests performed at diagnosis may allow construction of a model for individualized treatment and thereby improvement of current Ulcerative Colitis outcomes.

Geographic Distribution of Hypertension in U.S. Adults Age 45 or Older.
American Heart Association Predoctoral Fellowship 2014-01-01 to 2015-03-31.
Loop (PI)
Role: Principle Investigator

Pre-doctoral Trainee, NHLBI T32HL079888, August 2012 - December 2013

UAB Graduate School Fellow, August 2011 - July 2012

Pre-doctoral Trainee, UAB Pre-doctoral Training Program in Obesity Related Research (1T32HL105349), December 2010 - July 2011

Student Trainee, Kraft Fellowship Program of the UAB Nutrition and Obesity Research Center, June 2010 - November 2010

Invited talks

No Name Meeting. November, 2025.

"The Ways of Bayes: An Introduction for Preclinical Researchers." Presentation to UNC student chapter of American Association of Pharmaceutical Scientists. March, 2025.

"Antihypertensive pharmacotherapy in preterm infants." 34th UAB Annual Vascular Biology and Hypertension Research Symposium. April, 2024.

"Use and outcomes of beta blockers among Medicare beneficiaries hospitalized for heart failure with reduced ejection fraction." Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Kentucky. October 13, 2021.

"Is CHD mortality still decreasing?: Findings from the ARIC study." Department of Epidemiology, University of Kentucky. December 6, 2018.

"Mapping risk factors in the wild." Department of Biostatistical Sciences, Wake Forest University. October 25, 2016.

Other oral Presentations

Loop MS, Moylan H, Park J, & Ojeda AS. "Is groundwater good for your heart?" Alabama Water Resources Conference, September 2025. Orange Beach, AL.

Loop MS, Park J, Lotspeich SC, & Feig DI. "Reducing the error in neonatal blood pressure measurements: A calibration study." Society for Epidemiologic Research, June 2025. Boston, MA.

Loop MS, Ambalavanan N, Carlo WA, & Shukla VV. "Opioid-associated mortality in reproductive-age females and infant mortality in regions of socioeconomic deprivation." Southern Research Meetings, February 2025. New Orleans, LA.

Xue X, Ngorsuraches S, **Loop MS**, Johnson B, Zheng J, & Qian J. "Cost-effectiveness of cemiplimab plus chemotherapy as first-line treatment for advanced non-small cell lung cancer." SPAC, August 2024. Athens, GA.

Yang H, Du S, Hohmann N, Westrick S, Ngorsuraches S, **Loop MS**, & Garza K. "The process of self-medication decision-making among young adults: a qualitative study." SPAC, August 2024. Athens, GA.

Pagan Lassalle P, Sims M, Kerr ZY, Barone Gibbs B, Moore JB, **Loop MS**, Palta P, Kucharska-Newton A, & Meyer ML. "Association Between Perceived Discrimination and Arterial Stiffness." American Heart Association EPI—Lifestyle Scientific Sessions NHLBI Trainee Session, March 18-21, 2024. Chicago, IL.

Lemas DJ (presenter), **Loop MS**, Duong M, Schleffer A, Collins C, Ciesielski A, Ridge ZD, Wagner J, & Delcher C. "Wastewater pharmacometabolomics: Feasibility study using liquid-chromatography mass spectrometry to estimate illicit drug consumption during college football games." Fall 2019 American Chemical Society National Meeting and Exposition.

Loop MS, Van Dyke MK, Chen L, Safford MM, Kilgore ML, Brown TM, Durant RW, and Levitan EB. "Potential contraindications and beta blocker prescription fill patterns among Medicare beneficiaries hospitalized with heart failure with reduced ejection fraction." 2016 UAB Postdoc Research Day. **2nd place in session**.

Loop MS & McClure LA. "Trivial type 1 error rate inflation from testing for clustering at multiple ranges." Joint Statistical Meetings. August 3rd, 2014.

Loop MS, McClure LA, Levitan EB, Al-Hamdan MZ, Crosson WL, & Safford MM. "$PM_{2.5}$ and Incident CHD: Are Hazard Ratios Enough?" NHLBI Trainee Session of AHA EPI—NPAM 2014. March 19, 2014.

Loop MS, de los Campos G, McClure LA, & Howard G. "Bayesian kriging of systolic blood pressure in the REGARDS cohort." UAB Section on Statistical Genetics Annual Retreat. April 19, 2013.

McCullough DJ & **Loop MS**. "Reproducible Research." UAB Biostatistics Journal Club. October 19, 2012.

Wang G, Yan Q, & **Loop MS**. "Adaptive Designs." UAB Biostatistics Journal Club. March 14, 2012.

Loop MS, Wood AC, Thomas AS, Shikany JM, Gadbury GL, & Allison DB. "Patient Interest in a Novel Design for Estimating Treatment Response Heterogeneity." Joint Statistical Meetings. August 4th, 2011.

Lemas DJ & **Loop MS**. "Next-gen referencing: an introduction to Mendeley." UAB Section on Statistical Genetics Grant Writing Club. July 14th, 2011.

Posters

* indicates a student I was primary advisor for on the project
+ indicates shared first-author status

Bhargava, **Loop MS**, Jones R, Mukaz DK, Yuan Y, Judd SE, Howard VJ, Cushman M, Howard G, & Jackson EA. Urban-Rural Differences in Life's Essential 8: Results from the REasons for Geographic

And Racial Differences in Stroke (REGARDS) study. American Heart Association Scientific Sessions. New Orleans, LA. November, 2025.

Pagan Lassalle P, Yukio Kerr Z, Barone Gibbs B, Moore JB, **Loop MS**, Meyer ML. Agreement of Non-Invasive Devices that Measure Pulse Wave Velocity: VaSera vs VICORDER. American Heart Association Epi Lifestyle Scientific Sessions. New Orleans, LA. Mar 6, 2025.

Heeren FA, Lemas DJ, Bylund C, Ayzengart A, **Loop MS**, Janicke D, & Cardel M. "Recruiting Adolescent Bariatric Patients: A Glance Into Teen-Focused Community-Engaged Methods." 42nd Annual Meeting of the Obesity Society. November, 2024. San Antonio, TX.

Heeren F, Lemas DJ, Bylund C, Ayzengart A, **Loop MS**, Janicke D, & Cardel M. "Recruiting pediatric bariatric patients: A glance into community-engaged methods." Health Outcomes and Biomedical Informatics Education Day, March 27, 2024. Gainesville, FL.

Kamel AMA*, Sanderson K, Feig D, Laughon M, & **Loop MS**. "Association between initial propranolol dose and blood pressure control in 48 to 72 hours among preterm infants with hypertension." ISPOR 2024, May, 2024. Atlanta, GA.

Kamel AMA*, Sanderson K, Feig D, Laughon M, & **Loop MS**. "Association between initial propranolol dose and blood pressure control in 48 to 72 hours among preterm infants with hypertension." SPAC, August, 2024. Athens, GA.

Kamel AMA*, Sanderson K, Feig D, Laughon M, & **Loop MS**. "Association between initial propranolol dose and blood pressure control in 48 to 72 hours among preterm infants with hypertension." Auburn University 2024 Research Symposium, March 26, 2024. Auburn, AL.

Nobles A*,+, Redman E*,+, Hawthorne A, Lemas DJ, & **Loop MS**. "The size of college football stadiums and the towns they are in: Are all towns equipped for college football mass gatherings?" Auburn University 2024 Research Symposium, March 26, 2024. Auburn, AL.

Gardner RA, Farrell MC, Jackson W, **Loop MS**, Moore C, Pfaff E, Vece TJ, Gower WA, Laughon M, & Hagood JS. "Clinical Presentation and Characterization of Childhood Interstitial Lung Diseases Most Common in Infancy." American Thoracic Society International Conference. May, 2024. San Diego, CA.

Loop MS & Park J. "Calibrating routine blood pressures among preterm infants: A cross-sectional analysis." American Heart Association EPI—Lifestyle Scientific Sessions, March 18-21, 2024. Chicago, IL.

Pagan Lassalle P, Sims M, Kerr ZY, Barone Gibbs B, Moore JB, **Loop MS**, Palta P, Kucharska-Newton A, Meyer ML. (2024) Association Between Perceived Discrimination and Arterial Stiffness. American Heart Association EPI—Lifestyle Scientific Sessions, March 18-21, 2024. Chicago, IL.

Loop MS, Lotspeich SC, Garcia TP, & Meyer ML. "Should Regression Calibration or Multiple Imputation Be Used When Calibrating Different Devices in a Longitudinal Study?" AHA EPI—Lifestyle 2023, March 2, 2023. Boston, MA.

Loop MS, Urrutia RP, Johnson JD, Price TM, Wang TY, & Daubert MA. "Factors Associated with the severity of the hypertensive disorders of pregnancy" AHA EPI—Lifestyle 2023, February 28, 2023. Boston, MA.

Ulfat F, Reeder C, Smith E, Xu K, Ballard H, Chachad N, Cardel M, **Loop MS**, Francois M, & Lemas DJ. (2022). "The association between perceived COVID-19 threat and health and resources concerns". University of Florida Institute College of Medicine Research Day, April 6, 2022. Gainesville, FL.

Mays E, Alexander M, Barnes N, Chen A, **Loop MS**, & Miller J (2022). "Infusion chair time and cost analysis with intravenous vs. subcutaneous rituximab in patients with diffuse large B-cell lymphoma". Hematology/Oncology Pharmacy Association 2022. Boston, MA.

Saxon DT, Yang H, Li Q, **Loop MS**, Russell SD, Rossi J, Stacey R, & Chang P. "Do Heart Failure Admission Rates Change Around Holidays? The Atherosclerosis Risk in Communities (ARIC) Study." AHA Scientific Sessions 2021.

Daubert MA, Stebbins A, Urrutia R, Chiswell K, **Loop M**, Harding C, Price T, Miller P, & Wang T. "Postpartum blood pressure screening in women with hypertensive disorders of pregnancy." ACC 2021.

DeBarmore BM, **Loop MS**, Astor BC, Matsushita K, Heiss GM, Rosamond WD, & Franceschini N (2020). "Incident Chronic Kidney Disease and Myocardial Infarction Without Chest Pain: Results from the Atherosclerosis Risk in Communities Study." AHA EPI—Lifestyle 2020.

Loop MS, Fine JP, Folsom AR, Whitsel EA, Guild C, Ballantyne CM, & Rosamond W. "Secular Trends in Validity of Troponin I Assays for Myocardial Infarction Classification Among Four US Communities: Findings from the ARIC Study." AHA EPI—Lifestyle 2018.

Ponce SG, Allison MA, Carlson JA, Perreira KM, **Loop MS**, Gonzalez II F, Isasi CR, Hurwitz BE, Penedo FJ, Kansai MM, Daviglus ML, Talavera GA, Rodriguez CJ, & Gallo LG. "Neighborhood Level Hispanic/Latino Ethnic Density and Left Ventricular Structure: ECHO-SOL and SOL-CASAS Ancillary Studies of Hispanic Community Health Study/Study of Latinos (HCHS/SOL)." AHA EPI—Lifestyle 2018.

Pasquel FJ, **Loop MS**, Menke A, O'Brien MJ, Vidot DC, Sotres-Alvarez D, Corsino L, Talavera GA, Gallo LC, Kaplan RC, Schneiderman N, Daviglus ML, Cowie CC, & Aviles-Santa L. "Progression From Prediabetes to Diabetes in Hispanics/Latinos. Results From the Hispanic Community Health Study/Study of Latinos (HCHS/SOL)." AHA EPI—Lifestyle 2018.

Kucharska-Newton A, Bullo M, **Loop MS**, Moore C, Haas SW, Rosamond W, Futreel W, Luo K, Yadav H, & Bogle BM. "Completeness in the Abstraction of Cardiac Biomarkers and Cardiac Pain Data From Electronic Health Records (EHR). Findings From the Atherosclerosis Risk in Communities (ARIC) Study." AHA EPI—Lifestyle 2018.

Baldassari AR, Soliman EZ, Whitsel EA, Folsom AR, Matsushita K, Butler K, Bogle BM, Zhang Z-M, **Loop MS**, & Heiss G. "Feasibility of Electrocardiographic Identification and Classification of Myocardial Infarction Using Electronic Health Records. The Atherosclerosis Risk in Communities Study (ARIC)." AHA EPI—Lifestyle 2018.

Pena MB, Bulka CM, Swett K, Perreira K, Kansal M, **Loop MS**, Daviglus M, & Rodriguez C. "Occupational Environmental Exposures and Cardiac Structure and Function: The Echocardiographic Study of Latinos (ECHO-SOL)." American College of Cardiology Conference 2018.

Ricardo AC, **Loop MS**, Cedillo-Couvert EA, Chen Jinsong, Flessner MF, Franceschini N, Gonzalez II F, Kramer HJ, Moncrieft AE, Talavera GA, Daviglus ML, & Lash JP. "Incidence of Chronic Kidney Disease (CKD) and Association of Major Cardiovascular Risk Factors with CKD in the Hispanic Community Health Study / Study of Latinos (HCHS/SOL)." AHA EPI—Lifestyle 2017.

Loop MS, Van Dyke MK, Chen L, Brown TM, Durant RW, Safford MM, and Levitan EB. "The association of beta blocker prescription fills with mortality and hospitalizations among Medicare beneficiaires hospitalized for heart failure with reduce ejection fraction." UAB Public Health Research Day 2016.

Loop MS, Howard G, de los Campos G, Al-Hamdan MZ, Safford MM, Levitan EB, and McClure LA. "Geographic patterns of the prevalence of major cardiovascular risk factors." AHA EPI—Lifestyle 2016.

Loop MS, Van Dyke MK, Chen L, Brown TM, Durant RW, Safford MM, and Levitan EB. "Length of stay and 30-day readmission rates similar between Medicare beneficiaries with different types of heart failure." AHA EPI—Lifestyle 2016.

Loop MS, Van Dyke MK, Chen L, Brown TM, Durant RW, Safford MM, & Levitan EB. "Is there a mismatch between length of hospital stay and prognosis in Medicare beneficiaries hospitalized for heart failure?" 2015 UAB Vascular Biology and Hypertension Symposium. September 24th, 2015.

Loop MS, Howard G, Al-Hamdan MZ, and McClure LA. Risk for hypertension varies across continental US. UAB Comprehensive Cardiovascular Center (CCVC) 4th Annual Retreat. October 3, 2014.

Loop MS, McClure LA, Levitan EB, Al-Hamdan MZ, Crosson WL, & Safford MM. "$PM_{2.5}$ and Incident CHD: Are Hazard Ratios Enough?" UAB School of Public Health Sixth Annual Public Health Research Day. April 10th, 2014.

McClure LA, **Loop MS**, Crosson WL, Kleindorfer DO, Kissela BM, & Al-Hamdan MZ. "Fine particulate matter (PM2.5) and the risk of stroke in the REGARDS cohort." International Stroke Conference. February, 2013.

Loop MS, Kent ST, Al-Hamdan MZ, Crosson WL, Estes SM, Estes MG, Quattrochi DA, Hemmings SN, Wadley VG, & McClure LA. "Air particulate matter and cognitive decline: a prospective cohort study." UAB School of Public Health Fourth Annual Public Health Research Day. April 2nd, 2012.

Loop MS, Gadbury GL, Kaiser KA, Affuso O, & Allison DB. "How Large is Treatment Response Heterogeneity in Pharmaceutical Weight Loss Trials?: A Meta-analysis." UAB School of Public Health Third Annual Public Health Research Day. April 5th, 2011. (3rd place, Student Category)

Loop MS, Wood AC, Thomas A, Shikany JM, Gadbury GL, & Allison DB. "Subject Opinion of a Novel Clinical Trial Design: A Survey." UAB School of Public Health Third Annual Public Health Research Day. April 5th, 2011.

Loop MS & Allison DB. "Novel Design and Analysis for Estimating Treatment Response Heterogeneity." Section on Statistical Genetics Retreat. August, 2010.

Buchanan ML, Eberly B, Eby B, **Loop MS**, Younanian M, Smith WH, & Rissler LJ. "Responses of the Green Anole (Anolis carolinensis) to Fire-Restored Longleaf Forests." Undergraduate Research and Creative Activity Conference. The University of Alabama. April, 2009.

Teaching

Auburn University

PAOH 3010/3017 - Introduction to Epidemiology (Guest Lecturer: Fall 2023)

PYPD 9980 - Pharmacy Research (Spring 2024)

HORP 7820 - Research Methods (Co-Instructor: Fall 2023, Fall 2024, Fall 2025 [Course Coordinator])

HORP 7540 - Pharmacoepidemiology (Guest Lecturer: Spring 2023, Spring 2025)

DRDD 7000 - Introduction to Grant Writing (Course Instructor: Fall 2022, Fall 2023, Fall 2024, Fall 2025)

UNC Chapel Hill

UNC DPET 831 - Quantitative methods in clinical research (Spring 2021, 2022)

UNC BIOS 841 - Principles of statistical consulting (Spring 2019, 2020)

Students

Ahmed Kamel - PhD (current; advisor)

Lin Li - MS in 2020 (advisor)

Joseph Kim - BSPH in 2020 (advisor)

Betsy Hensel - MS in 2020 (reader)

Haily Ausin - MS in 2020 (reader)

Celia Stafford - MPH in 2020 (reader)

Drew Thompson - MS in 2020 (reader)

Griffin Bell - BSPH in 2018, MS in 2019 (advisor)

Yunhan Wu - BSPH in 2019 (reader)

Jimin Kim - MS in 2019 (reader)

Honors and awards

2024 Nominated for the 2024 Hargreaves Faculty Mentor of the Year, Harrison College of Pharmacy

2021 "Worthy of Recognition" as Instructor in PHCY 726: Research and Scholarship in Pharmacy III, UNC Eshelman School of Pharmacy

2018 Fellow of the American Heart Association

2018 Junior Faculty Development Award ($10,000), UNC Chapel Hill

2015 Fellow, American Heart Association 10-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease

2015 Career Enhancement Award, UAB Office of Postdoctoral Education

2015 Outstanding PhD Student of the Year Award, UAB School of Public Health

Professional Activities

Reviewed papers for: *JAMA Network Open (statistical reviewer)*, *Journal of the American Heart Association*, *Obesity*, *PLoS ONE*, *American Journal of Public Health*, *American Journal of Clinical Nutrition*, *Neurology*, *Journal of Hospital Medicine*

Member, American Heart Association, 2013 - present

Member, Society for Epidemiologic Research, 2023 - present

Service

AHA Trainee Awards Hypertension Study Section, *ad hoc* reviewer, Fall 2024

Co-hosted a roundtable at AHA EPI — Lifestyle titled, "How to get non-epidemiologists involved in epidemiology research", 2024

CHSA NIH Study Section, *ad hoc* reviewer, Spring 2022, Summer 2022

Member, American Heart Association EPI Statistics Committee, 2017 - 2019, 2020 - 2022

Abstract reviewer for AHA EPI — Lifestyle: 2019, 2020, 2024

Abstract reviewer for SER Annual Meeting: 2024

Judge for Graduate Biomedical Science Poster Session, UAB, November 2015, May 2016

Computing

R, LaTeX, git, SAS, UNIX/Linux, stan, High Performance Computing (HPC)

Languages

English, fluent

Spanish, limited working proficiency

Last updated: December 31, 2025