

# Meredith Stevenson Duncan

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## EDUCATION

|                                                                |      |
|----------------------------------------------------------------|------|
| PHD Epidemiology, <b>Vanderbilt University</b> , Nashville, TN | 2020 |
| MA Biostatistics, <b>Boston University</b> , Boston, MA        | 2013 |
| BS Mathematics, <b>Murray State University</b> , Murray, KY    | 2011 |

## POSITIONS

|                             |                        |
|-----------------------------|------------------------|
| ASSISTANT PROFESSOR         | 2020-PRESENT           |
| Department of Biostatistics | University of Kentucky |

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|-----------------------------------------------|------------------------|
| DIRECTOR OF GRADUATE STUDIES                  | 2022-2023              |
| PhD Program in Epidemiology and Biostatistics | University of Kentucky |

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| BIostatISTICS CORE COORDINATOR          | 2021-2022              |
| Center for Health Equity Transformation | University of Kentucky |

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| SENIOR STATISTICAL ANALYST          | 2019-2020                            |
| Division of Cardiovascular Medicine | Vanderbilt University Medical Center |

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| DATABASE ADMINISTRATOR              | 2016-2019                            |
| Division of Cardiovascular Medicine | Vanderbilt University Medical Center |

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| RESEARCH ASSOCIATE     | 2016              |
| Framingham Heart Study | Boston University |

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| RESEARCH ASSISTANT     | 2013-2015         |
| Framingham Heart Study | Boston University |

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| LAB INSTRUCTOR    | 2013-2015                                      |
| Boston University | Summer Institute for Training in Biostatistics |

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| RESEARCH ASSISTANT     | 2013-2015                            |
| Long Life Family Study | Boston University School of Medicine |

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| CONSULTANT                       | 2014              |
| Office of Institutional Research | Boston University |

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| INSTRUCTOR        | 2014                    |
| Boston University | School of Public Health |

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|------------------------------|--------------------------------------|
| RESEARCH ASSISTANT           | 2013                                 |
| Department of Bioinformatics | Boston University School of Medicine |

RESEARCH ASSISTANT  
Department of Endocrinology

2012  
Boston University School of Medicine

SUMMER INTERN  
Institutional Review Board

2012  
Boston University Medical Center

## TEACHING

### INSTRUCTOR

1. DATABASES AND SAS PROGRAMMING SP 2024, SP 2025  
A graduate-level course aimed at teaching students the foundations of best practices for data management in the SAS language. (2024 TCEs: 4.6 Overall; 4.7 Instructor)
2. DOCTORAL SEMINAR SP 2024  
A seminar course for students in the Epidemiology and Biostatistics PhD program. During the semester, students developed a literature review which provided background knowledge for their dissertation.
3. APPLIED SURVIVAL ANALYSIS SP 2022, FA 2024  
Developed and taught this graduate-level course aimed at teaching students how to analyze and report time-to-event data with an emphasis on practical application and programming in Statistical Analysis Software (SAS) and R. (2022 TCEs: 4.9 Overall; 4.9 Instructor) (2024 TCEs: 4.9 Overall; 5.0 Instructor)
4. FUNDAMENTALS OF GRANT WRITING FOR EPIDEMIOLOGY AND BIOSTATISTICS SP 2021  
Developed and taught this doctoral-level course aimed at providing students with the skillset to write and submit grants for external funding.
5. SURVEY IN BIOSTATISTICAL METHODS SU 2013, SU 2014, SU 2015  
Introduces students to statistical computing in SAS and R using datasets from the Framingham Heart Study and Jackson Heart Study.
6. INTRODUCTION TO STATISTICAL COMPUTING SP 2014, FA 2014  
An introductory graduate level course that introduces SAS to analyze public health data.

### GUEST LECTURER

1. RACE, RACISM AND HEALTH DISPARITIES AMONG BLACKS IN THE U.S. SP 2022 - SP 2025  
Presented a lecture on when and how to adjust for race and ethnicity in epidemiologic studies in order to study and eliminate disparities rather than exacerbate them.

## STUDENT MENTORING

### PhD DISSERTATION COMMITTEE CHAIR

- William Burrows, PhD in Epidemiology and Biostatistics, University of Kentucky 2021-PRESENT
  - 1st Place: CPH Research Day Poster Competition (2025 CCTS Conference)
  - 2nd Place: Student Research Poster Awards, Doctoral Students (2025 Public Health Showcase)

### PhD DISSERTATION COMMITTEE CO-CHAIR

- Nazanin Hooman, PhD in Clinical and Translational Science, University of Kentucky 2022-PRESENT

## PHD DISSERTATION COMMITTEE MEMBER

- Caitlyn Grunert, PhD in Health Services Research, University of Kentucky 2025-PRESENT
- Clare Johnson-Applin, PhD in Pharmaceutical Science, University of Kentucky 2024-PRESENT
- Mina Yakoub, PhD in Pharmaceutical Science, University of Kentucky 2024-PRESENT
- Hannah Speaks, PhD in Epidemiology and Biostatistics, University of Kentucky 2023-PRESENT
- Ning Li, PhD in Epidemiology and Biostatistics, University of Kentucky 2022-PRESENT

## MASTERS THESIS COMMITTEE MEMBER

- Clare Johnson-Applin, MS in Pharmaceutical Science and PharmD, University of Kentucky 2022-2024
- Orighomisan Agboghoroma, MPH, University of Kentucky 2023-2024
- Hannah Hiscox, MPH, University of Kentucky 2023-2024

## AWARDS

1. FINALIST: SANDRA A. DAUGHERTY AWARD FOR EXCELLENCE IN CARDIOVASCULAR EPIDEMIOLOGY 2025  
Awarded by the American Heart Association Council on Epidemiology and Prevention. This award is designed to recognize the role of junior faculty and to stimulate excellence in research by junior investigators.
2. YOUNG ALUMNI TOP 22 UNDER 40 2022  
Awarded by Murray State University Alumni Association. This honor recognizes distinguished alumni based on letters of recommendation, resumes, and personal statements.
3. NEW INVESTIGATOR SCHOLARSHIP 2020  
Awarded by the Conference on Retroviruses and Opportunistic Infections (CROI) to new investigators in the fields of HIV science and medicine based on quality of abstract, application, and letter of recommendation.
4. JESSE D. JONES LECTURER 2019  
Awarded by the Murray State University Department of Mathematics and Statistics. This lectureship is bestowed to distinguished alumna with an invitation to speak during Math Day festivities to high school and undergraduate students about how they are using their mathematics degrees in their careers.
5. PAUL DUDLEY WHITE INTERNATIONAL SCHOLAR - UNITED STATES 2018  
Awarded by the American Heart Association at the 2018 Scientific Sessions. This award recognizes authors that contributed to the highest ranked accepted abstract from each country.
6. EARLY CAREER INVESTIGATOR POSTER AWARD - POPULATION SCIENCE 2018  
Awarded by the American Heart Association at the 2018 Scientific Sessions to the highest ranked poster presentation by an early career investigator in the population science focus.
7. NIGMS INTERDISCIPLINARY TRAINING GRANT IN BIOSTATISTICS 2011-2013  
Received a two-year training grant which allowed me to focus on coursework and complete four rotations in each of: Ethical Conduct of Research, Clinical Trials, Statistical Genetics, and Bioinformatics.

## SERVICE

### UNIVERSITY SERVICE

- Cardiovascular Research Priority Area Internal Advisory Board: University of Kentucky 2024-PRESENT
- Graduate Committee: University of Kentucky, College of Public Health 2022-2023, 2024-PRESENT
- High School Poster Judge: University of Kentucky CCTS Conference 2025
- Faculty Search and Screen Committee: Department of Biostatistics 2025
- Academic Assistant Dean Search Committee: University of Kentucky, College of Public Health 2024
- Student Poster Judge: Public Health Showcase 2024
- Selection Committee Member: CPH Lyman T. Johnson Award Winners 2024
- Committee for Inclusive Excellence: University of Kentucky, College of Public Health 2023-2024
- Hiring Committee Member: CPH Inclusive Excellence Coordinator 2023
- Director of Graduate Studies: PhD in Epidemiology and Biostatistics 2022-2023
- Biostatistics Core Coordinator: Center for Health Evaluation and Transformation 2021-2022
- Research Committee Member: Center for Health Evaluation and Transformation 2021-2022
- PhD Program Oversight Committee: University of Kentucky, Department of Biostatistics 2020-2021
- PhD Comprehensive Exam Committee: University of Kentucky, Department of Biostatistics 2020-2022
- Biostatistics Student Association Vice President: Boston University, Department of Biostatistics 2013-2015
- Biostatistics Student Association Treasurer: Boston University, Department of Biostatistics 2012-2013

### OTHER SERVICE

- Honors College Alumni Advisory Board Member: Murray State University 2024-PRESENT
- EPI Council Early Career Committee Member: American Heart Association 2023-PRESENT
  - Chair-Elect 2025-PRESENT
  - Organizer/Moderator: *Cohorts Uncovered: Practical Tips for Using Common Cohort Studies* 2025
- Moderator, 3-Minute Abstract Competition: American Heart Association 2025
- Judge and Moderator, Elizabeth Barrett Connor Award: American Heart Association 2024
- Abstract Reviewer for EPI—Lifestyle Scientific Sessions: American Heart Association 2023, 2024
- Ancel Keys Lecture Moderator: American Heart Association, Scientific Sessions 2022

### DATA AND SAFETY MONITORING BOARDS

- ClearMEMory: Clearing lupus fog with MEMantine 2022-PRESENT

### GRANT REVIEW PANELS

- VA RRD Behavioral Health and Social Reintegration Scientific Merit Review March 2022

## PRESENTATIONS - AS PRESENTER

1. Inclusion of Social Determinants of Health in Cardiovascular Disease Risk Prediction Models. March 9, 2025. 2025 American Heart Association EPI—Lifestyle Scientific Sessions. New Orleans, Louisiana. (Oral).
2. The Role of Race and Social Determinants of Health in Cardiovascular Disease Risk Prediction. January 27, 2025. UAB Epidemiology Seminar Series. Birmingham, Alabama. (Oral, **Invited**).
3. The Care and Keeping of a Biostatistician. October 3, 2024. IRON Career Development Awardee Retreat. Lexington, Kentucky. (Oral, **Invited**).
4. Cardiovascular Disease Incidence Among Male Veterans by Sexual Orientation and Race. 2024 American Heart Association EPI—Lifestyle Scientific Sessions. Chicago, Illinois. (Poster).
5. Cardiovascular Disease Incidence Among Female Veterans by Sexual Orientation and Race. February 2, 2024. Healthy Heart for Women Symposium. Lexington, Kentucky. (Oral, **Invited**).
6. Algorithmic Bias: What it is and how to avoid it. April 28, 2023 University of Kentucky Cardiovascular Epidemiology Research Group. via Zoom. (Oral).
7. Efforts to Increase Cardiovascular Health Equity. April 28, 2023 University of Kentucky Cardiovascular Seminar Series. Lexington, Kentucky. (Oral, **Invited**).
8. Health Equity Breakout Session Panelist. 2023 University of Kentucky United in True Racial Equity (UNITE) Research Showcase. Lexington, Kentucky. (Oral, **Invited**).
9. Examining the Cardiovascular Health of Lesbian, Gay, and Bisexual Veterans. 2023 University of Kentucky Center for Clinical and Translational Science Research Day. Lexington, Kentucky. (Oral, **Invited**).
10. Advancing Cardiovascular Health Equity. March 2023 Wake Forest University Department of Biostatistics and Data Science Seminar Series. via Zoom. (Oral, **Invited**).
11. Diabetes Prevalence and its Risk Factors Among Veterans by Sexual Orientation. 2023 American Heart Association EPI—Lifestyle Scientific Sessions. Boston, Massachusetts. (Poster).
12. Consideration of Social Determinants of Health in Risk Prediction. Transdiagnostic Clinical Risk Calculator Workshop on Future Directions. Chicago, Illinois. (Oral, **Invited**).
13. Cardiovascular Disease Risk and Outcomes Among Veterans by Sexual Orientation. 2023 Veterans Affairs HSR&D/QUERI National Meeting. Washington, DC. (Poster).
14. Current and Future Projects to Advance Cardiovascular Health Equity. February 2023 Health Communication Research Collaborative meeting, University of Kentucky, Lexington, Kentucky. (Oral, **Invited**).
15. Decreasing Health Disparities. January 2023 Epidemiology Seminar Series, Northwestern University Department of Preventive Medicine, via Zoom. (Oral, **Invited**).
16. Significant Smoking Reduction and the Risk of Cardiovascular Disease: Prospective Results from the Framingham Heart Study. 2022 American Heart Association Scientific Sessions. Chicago, Illinois. (Poster).
17. Using Secondary Data Analysis to Decrease Cardiovascular Health Disparities. 2022 Saha Cardiovascular Research Day, Assistant Professor Showcase. Lexington, Kentucky. (Oral, **Invited**).
18. Race and Risk Calculators. October 2022 University of Kentucky Institute for Biomedical Informatics Professional Development Series. Lexington, Kentucky. (Oral, **Invited**).

19. Modeling the Effect of Lifetime Smoking on Cardiovascular Disease Risk. September 2022 University of Louisville Department of Biostatistics Speaker Series. Louisville, Kentucky. (Oral, **Invited**).
20. Adjustment for Race in Epidemiologic Studies. May 2022 University of Kentucky CCTS BERD Bites. Lexington, Kentucky. (Oral).
21. Health for All Y'All: Health Equity Panel Discussion. 2022 University of Kentucky National Public Health Week. Lexington, Kentucky. (Oral, **Invited**).
22. Impact of Including Smoking Duration Data in Atherosclerotic Cardiovascular Disease Risk Estimation. 2020 American Heart Association Scientific Sessions. Virtual. (ePoster).
23. HIV as a Risk Factor for Incident Pulmonary Hypertension. 2020 Conference on Retroviruses and Opportunistic Infections. Boston, Massachusetts. (ePoster).
24. Confounding and Mediation of the Association between Psychological Attitudes and Type 2 Diabetes Risk among Postmenopausal Women. 2019 American Heart Association Scientific Sessions, Philadelphia, Pennsylvania. (Poster).
25. Lifetime Smoking and Risk of CVD and Lung Cancer. September 2019 Pizza and Pilots Meeting, University of Kentucky. Lexington, Kentucky. (Oral, **Invited**).
26. Epidemiology and Biostatistics: Using Math to Improve Health without Touching Blood. 2019 Jesse D. Jones Lecture, Murray State University. Murray, Kentucky. (Oral, **Invited**).
27. Lifetime History of Smoking Cessation and the Risk of Cardiovascular Disease: Prospective Results from the Framingham Heart Study. 2018 American Heart Association Scientific Sessions, Chicago, Illinois. (Poster).
28. Trajectories of Blood Lipid Concentrations Over the Adult Life Course and Risk of Cardiovascular Disease and All-Cause Mortality. 2018 American Heart Association Scientific Sessions, Chicago, Illinois. (Poster).
29. An Introduction to Splines. February 2018 Veterans Aging Cohort Study Statistical Working Group Meeting, Webinar. (Oral).
30. Lifetime History of Smoking Cessation and the Risk of Lung Cancer: Prospective Results from the Framingham Heart Study Original and Offspring Cohorts. 2017 Society for Research on Nicotine and Tobacco Annual Meeting, Florence, Italy. (Poster).
31. Burden of Disease Variants in Participants of the Long Life Family Study. 2014 Annual Genome Science Institute Research Symposium, Boston University. (Poster).

## CURRENT FUNDING

1NU58DP007585-01-00, Gupta (PI)

Project: 10/23 – 09/28; My funding: 12/24 – 09/28

CDC

\$1,000,295

*UKHC's Innovative Cardiovascular Health Program*

Role: Co-Investigator

75D30124C20318, Lacy Leigh (PI)

09/24 – 09/27

CDC

\$1,495,564

*Leveraging Community-Clinical Linkages to Address Unmet Social Needs for People with Diabetes Living in Rural Settings*

Role: Co-Investigator

1R21HL177760-01A1 , Duncan (PI) 08/25 – 07/27  
NIH, NHLBI  
\$231,000  
*Patterns of Long-term Cigarette Smoking Behavior on CVD Risk: Implications for Clinical Practice and Public Health*  
Role: Principal Investigator

5ASTWH210102-03-00, Coker (PI) Project: 09/21 – 09/26; My funding: 05/24 – 09/26  
DHHS  
\$362,879  
*Violence Intervention and Prevention (VIP) Corps to Reduce Maternal Injuries and Deaths due to Violence*  
Role: Co-Investigator

No Contract Number, McKune (PI) 07/24 – 06/26  
KY CHFS  
*Kentucky Heart Disease and Stroke Prevention Learning Collaborative*  
Role: Co-Investigator

5R01DK135885-02, Smalls, Kruse-Diehr (MPI) Project: 04/23 – 03/26; My funding: 02/24 – 03/26  
NIH, NIDDK  
\$1,040,693  
*Older Adults Using Social Support to Improve Self-Care (OASIS): Adaptation, Implementation, and Feasibility of Peer Support for Older Adults with T2DM in Appalachia*  
Role: Co-Investigator

11-22-ICTSN-24, Smalls (PI) Project: 11/22 – 11/25; My funding: 02/24 – 11/25  
American Diabetes Association  
\$596,981  
*Addressing Intergenerational Obesity and Promoting Healthy Eating and Physical Activity Among Individuals Living with Diabetes in Appalachia Kentucky*  
Role: Co-Investigator

6U01CE002294-03-01, Coker (PI) Project: 09/21 – 09/25; My funding: 05/24 – 09/25  
CDC  
\$1,710,000  
*RCT to Evaluate Bystander-informed See it Stop it (BiSiSi) to Prevent Child Sex Trafficking in Kentucky Middle Schools*  
Role: Co-Investigator

5R01DA049333-04, Stevens-Watkins (PI) Project: 09/20 – 07/25; My funding: 07/24 – 07/25  
NIH, NIDA  
\$3,206,782  
*Research Examining Factors Associated with the Opioid Crisis Among Underserved African Americans (REFOCUS)*  
Role: Co-Investigator

## PRIOR FUNDING

220127SEA014, Coker (Site PI), Sanderson (PI) Project: 09/22 – 09/27; My funding: 05/24 – 03/25\*  
CDC  
\$192,624 (UK Subcontract from Meharry Medical College)  
*The RCMi program in health disparities research at Meharry Medical College*  
Role: Co-Investigator

5UL1TR001998-08, Kern (PI)  
NIH, NCATS  
\$3,494,675  
*Kentucky Center for Clinical and Translational Science*  
Role: BERD Faculty

Project: 08/16 – 06/26; My funding: 07/21 – 11/24

1U7AMC50519-01-00, O'Brien (PI)  
HRSA  
\$1,404,309  
*The Kentucky Severe Maternal Morbidity and Mortality Task Force: State Maternal Health Innovation Program*  
Role: Co-Investigator

Project: 09/23 – 08/28; My funding: 06/24 – 08/24

5KL2TR001996-07, Duncan (Project PI), Kelly (Overall PI of KL2 Program)  
NIH, NCATS  
\$70,000 +75% Salary  
*The Power of Social Determinants of Health: An Avenue for Eliminating Race-Based CVD Risk Estimation*  
Role: Principal Investigator

09/21 – 06/23; 9/23 – 12/23

## PEER REVIEWED ARTICLES

### WRITING IN PROGRESS

1. **Duncan, M. S.**, Burrows, W. B., Heier, K. R., Oser, C., Arnett, D. K., Stevens-Watkins, D., Judd, S. E., Levitan, E. B., Carson, A. P., Daviglius, M. L., Lloyd-Jones, D. M. Inclusion of Social Determinants of Health in Cardiovascular Disease Risk Prediction Models.
2. **Duncan, M. S.**, Heier, K. R., O'Leary, J. R., Skanderson, M., Workman, T. E., Wolfe, H. L., Jasuja, G. K., Goulet, J. L., Streed, C. G. A Comparison of Algorithmically-Defined versus Self-Identified Sexual Orientation and Gender Identity among US Veterans .
3. **Duncan, M. S.**, Streed, C. G., Heier, K. R., Beach, L. B., O'Leary, J. R., Skanderson, M., Goulet, J. L. Cardiovascular Disease Incidence Among Male Veterans by Sexual Orientation and Race.
4. Everitt, I. K., **Duncan, M. S.**, Heier, K. R., Wolfe, H. L., O'Leary, J. R., Jasuja, G. K., Goulet, J. L., Mukherjee, M., Streed, C. G. Risk of Heart Failure by Gender Identity among US Veterans.
5. Leshi, O., **Duncan, M. S.** Ortiz, C., Khanal, S., Smalls, B. Effect of COVID-19 Stimulus Payments on Mental Well-Being.
6. Ortiz, C., **Duncan, M. S.**, Leshi, O., Khanal, S., Smalls, B. L. The Influence of Support from Family, Friends, and Community on Perceived Mental Health Status in Diabetes.

### UNDER REVIEW

1. Beach, L. B.\*, **Duncan, M. S.\***, Wolfe, H., Restar, A., Rivera, A., Streed, C. G. Sexual Orientation, Gender Identity, and Cardiometabolic Risk.
2. Leshi, O., **Duncan, M. S.** Ortiz, C., Khanal, S., Smalls, B. Effect of COVID-19 Stimulus Payments in Mitigating Food Insufficiency.
3. Everitt, I. K., Quinn, E. K., **Duncan, M. S.**, Grasso, C., Reisner S. L., Jasuja, G. K., Poteat, T., Shapira-Daniels, A., Cabral, H. J., Tangpricha, V., Paasche-Orlow, M. K., Benjamin, E. J., Streed, C. G., Mukherjee, M. Prevalence and Incidence of Heart Failure Phenotypes Among Transgender and Gender Diverse Adults in the United States.

4. Sprang, G., Mennicke, A., Clear, E. R., Brienzo, M. J. Roark, A. L., Willard, J., Tsukerman, K., Thorne, E., Ray, C. M., Brancato, C. J., **Duncan, M. S.**, Coker, A. L. Randomized Control Trial Protocol to Evaluate an Engaged-Bystander Approach to Prevent Child Sex Trafficking.
5. Moore, J. X., Patel, A., Spears, M., Cassanova, T., Shelton, B., Weiss, H., Langston, M. E., Watts, K. J., Boyd, D., Adsul, P., **Duncan, M. S.** Mediating Role of Social and Health Factors on the Relationship Between Sexual Minority Individuals Living with High Allostatic and Risk of Cancer Mortality.
6. Agboghroma, O., Heier, K. R., Atac, O., **Duncan, M. S.**, Kucharska-Newton, A. K., Lacy, M. E. Cardiovascular disease prevalence among adults with type 1 diabetes in the US: A cross-sectional study using insurance claims data, 2017-2021.

#### PUBLISHED

1. Streed, C. G., **Duncan, M. S.**, Heier, K. R., Workman, T. E., Beach, L. B., Jasuja, G. K., L, W. H., Hughes, L. D., R, O. J., Skanderson, M., & Goulet, J. L. (2025). Incident atherosclerotic cardiovascular disease among veterans by gender identity: A cohort study. *Journal of General Internal Medicine*
2. Ortiz, C. L., **Duncan, M. S.**, Leshi, O., Burrows, W. B., & Smalls, B. L. (2025). Influence of perceived health provider communication, diabetes duration and age at diagnosis with confidence in diabetes self-care. *BMJ Open Diabetes Research & Care*, 13(2)
3. Streed, C. G., **Duncan, M. S.**, Heier, K. R., Workman, T. E., Beach, L. B., Caceres, B. A., O'Leary, J. R., Skanderson, M., & Goulet, J. L. (2024). Prevalent atherosclerotic cardiovascular disease among veterans by sexual orientation. *Journal of the American Heart Association*, 13(22), e036898.  
URL <https://www.ahajournals.org/doi/abs/10.1161/JAHA.124.036898>
4. **Duncan, M. S.**, Diaz-Zabala, H., Jaworski, J., Tindle, H. A., Greevy, R. A., Lipworth, L., Hung, R. J., Freiberg, M. S., & Aldrich, M. C. (2024). Interaction between continuous pack-years smoked and polygenic risk score on lung cancer risk: Prospective results from the framingham heart study. *Cancer Epidemiology, Biomarkers & Prevention*, 33(4), 500–508.  
URL <https://doi.org/10.1158/1055-9965.EPI-23-0571>
5. Sung, M. L., Eden, S. K., Becker, W. C., Crystal, S., **Duncan, M. S.**, Gordon, K. S., Kerns, R. D., Kundu, S., Freiberg, M., So-Armah, K. A., et al. (2023). The association of prescribed opioids and incident cardiovascular disease. *The Journal of Pain*
6. **Duncan, M. S.**, Robbins, N. N., Wernke, S. A., Greevy, R. A., Jackson, S. L., Beatty, A. L., Thomas, R. J., Whooley, M. A., Freiberg, M. S., & Bachmann, J. M. (2023). Geographic variation in access to cardiac rehabilitation. *Journal of the American College of Cardiology*, 81(11), 1049–1060.  
URL <https://www.jacc.org/doi/abs/10.1016/j.jacc.2023.01.016>
7. Jones, A. A., **Duncan, M. S.**, Perez-Brumer, A., Connell, C. M., Burrows, W. B., & Oser, C. B. (2023). Impacts of intergenerational substance use and trauma among black women involved in the criminal justice system: A longitudinal analysis. *Journal of Substance Use and Addiction Treatment*, (p. 208952).  
URL <https://www.sciencedirect.com/science/article/pii/S2949875923000024>
8. Aday, A. W., **Duncan, M. S.**, Patterson, O. V., DuVall, S. L., Alba, P. R., Alcorn, C. W., Tindle, H. A., Creager, M. A., Bonaca, M. P., Damrauer, S. M., Wells, Q. S., Behroozian, A., Beckman, J. A., & Freiberg, M. S. (2022). Association of Sex and Race With Incident Peripheral Artery Disease Among Veterans With Normal Ankle-Brachial Indices. *JAMA Network Open*, 5(11), e2240188–e2240188.  
URL <https://doi.org/10.1001/jamanetworkopen.2022.40188>
9. Kundu, S., Freiberg, M. S., Tracy, R. P., So-Armah, K. A., Koethe, J. R., **Duncan, M. S.**, Tindle, H. A., Beckman, J. A., Feinstein, M. J., McDonnell, W. J., Justice, A., Doyle, M. F., & null null (2022). Circulating t cells and cardiovascular risk in people with and without hiv infection. *Journal of the American College of*

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\*Equal contribution

10. Hamm, J., **Duncan, M. S.**, Robertson, N. M., Keck, J. W., & Crabtree, K. (2022). Covid-19 in patients with a primary refugee-associated language in a kentucky emergency department during 2020. *J Immigrant Minority Health*
11. Ahmed, T., Chishti, E., Sinner, G., **Duncan, M. S.**, Leung, S. W., & Ramachandran, P. (2022). A report on short-term follow-up cardiac imaging and clinical outcomes of myocarditis after coronavirus disease 2019 vaccination. *J Cardiovasc Med*, 23(10), 691–693
12. Leachman, J. R., Heier, K., Lei, F., Ahmed, N., Dalmasso, C., **Duncan, M. S.\***, & Loria, A. S.\* (2022). Sex and race define the effects of adverse childhood experiences on self-reported bmi and metabolic health biomarkers. *Biology of Sex Differences*, 13
13. Hillerson, D., Whiteside, H. L., Dugan, A. J., Coots, R. D., Tribble, T. A., Abdel-Latif, A., Ogunbayo, G. O., **Duncan, M. S.**, & Gupta, V. A. (2022). Predicting mortality in nonsurgical patients before cannulation for veno-arterial extracorporeal life support: Development and validation of the LACT-8 score. *Catheterization and Cardiovascular Interventions*.  
URL <https://onlinelibrary.wiley.com/doi/full/10.1002/ccd.30106><https://onlinelibrary.wiley.com/doi/abs/10.1002/ccd.30106><https://onlinelibrary.wiley.com/doi/10.1002/ccd.30106>
14. **Duncan, M. S.**, Greevy, R. A., Tindle, H. A., Vasan, R. S., Lipworth, L., Aldrich, M. C., Lloyd-Jones, D. M., & Freiberg, M. S. (2022). Inclusion of Smoking Data in Cardiovascular Disease Risk Estimation. *JAMA Cardiology*, 7(2), 195–203.  
URL <https://jamanetwork.com/journals/jamacardiology/fullarticle/2786611>
15. Freiberg, M. S., **Duncan, M. S.**, Alcorn, C., Chang, C. H., Kundu, S., Mumpuni, A., Smith, E. K., Loch, S., Bedigian, A., Vittinghoff, E., So-Armah, K., Hsue, P. Y., Justice, A. C., & Tseng, Z. H. (2021). Hiv infection and the risk of world health organization&#x2013;defined sudden cardiac death. *Journal of the American Heart Association*, 10(18), e021268.  
URL <https://www.ahajournals.org/doi/abs/10.1161/JAHA.121.021268>
16. Yola, I. M., Moser, C.\*, **Duncan, M. S.\***, Schwedhelm, E., Atzler, D., Maas, R., Hannemann, J., Böger, R. H., Vasan, R. S., & Xanthakis, V. (2021). Associations of circulating dimethylarginines with the metabolic syndrome in the framingham offspring study. *PLOS ONE*, 16(9), 1–12.  
URL <https://doi.org/10.1371/journal.pone.0254577>
17. **Duncan, M. S.**, Alcorn, C. W., Freiberg, M. S., So-Armah, K., Patterson, O. V., DuVall, S. L., Crothers, K. A., Lo Re, V., Butt, A. A., Lim, J. K., Kim, J. W., Tindle, H. A., Justice, A. C., & Brittain, E. L. (2021). Association between hiv and incident pulmonary hypertension in us veterans: a retrospective cohort study. *The Lancet Healthy Longevity*.  
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### Selected Media Coverage

- *Cardiology Consultant Podcast*: Meredith Duncan on CVD Risk After Smoking Cessation
  - *Boston Globe*: Want your heart to recover from smoking? The sooner you quit, the better, researchers say
  - *WebMD*: It Takes Years for Heart to Recover from Smoking
  - *AJMC*: Smoking Cessation Found to Lower Risk of Cardiovascular Disease
28. Beckman, J. A., **Duncan, M. S.**, Damrauer, S. M., Wells, Q. S., Barnett, J. V., Wasserman, D. H., Bedimo, R. J., Butt, A. A., Marconi, V. C., Sico, J. J., Tindle, H. A., Bonaca, M. P., Aday, A. W., & Freiberg, M. S. (2019). Microvascular Disease, Peripheral Artery Disease and Amputation. *Circulation*, (p. CIRCULATIONAHA.119.040672). URL <https://www.ahajournals.org/doi/10.1161/CIRCULATIONAHA.119.040672>
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## PROFESSIONAL DEVELOPMENT

- Faculty Success Program: NCFDD January - April 2024
- Introduction to Structural Equation Modeling: Statistical Horizons December 15-17, 2022
- Career Development for Junior Faculty Applied Statisticians: Joint Statistics Meeting August 8, 2022
- US Ten-Day Seminar on the Epidemiology and Prevention of CVD and Stroke July 24 - August 5, 2022
- Strategic Empowerment Tailored for Health Equity Investigators: NRMN December 2021-December 2022
- Quantitative Methods to Increase Diversity, Equity, and Inclusion: ICPSR May 23-27, 2022
- Cultural and Structural Racism: Developing Theories and Frameworks: ICPSR July 19-23, 2021
- Structural Equation Models and Latent Variables: ICPSR June 21 - July 2, 2021
- Group-Based Trajectory Modeling for the Medical and Social Sciences: ICPSR May 17-21, 2021
- Introduction to Causal Inference: Harvard T.H. Chan School of Public Health June 2-6, 2019
- Statistical Genetics Short Course: University of Colorado Medical Campus September 18-22, 2017
- Using Stata Effectively: Stata Corporation January 25-25, 2017
- Women's Health Initiative Data Training: Fred Hutchinson Cancer Research Center September 9, 2016
- Introduction to Medicare Data for Research: Research Data Assistance Center August 15-17, 2016
- Regression Modeling Strategies: Vanderbilt University May 24-27, 2016

## PROFESSIONAL SOCIETIES

- American Heart Association 2018-PRESENT
- American Statistical Association 2013-2017; 2021-PRESENT

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\*Equal contribution