

# 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 Department of Biostatistics	2020-PRESENT University of Kentucky
BIostatISTICS CORE COORDINATOR Center for Health Equity Transformation	2021-PRESENT University of Kentucky
SENIOR STATISTICAL ANALYST Division of Cardiovascular Medicine	2019-2020 Vanderbilt University Medical Center
DATABASE ADMINISTRATOR Division of Cardiovascular Medicine	2016-2019 Vanderbilt University Medical Center
RESEARCH ASSOCIATE Framingham Heart Study	2016 Boston University
RESEARCH ASSISTANT Framingham Heart Study	2013-2015 Boston University
LAB INSTRUCTOR Boston University	2013-2015 Summer Institute for Training in Biostatistics
RESEARCH ASSISTANT Long Life Family Study	2013-2015 Boston University School of Medicine
CONSULTANT Office of Institutional Research	2014 Boston University
INSTRUCTOR Boston University	2014 School of Public Health
RESEARCH ASSISTANT Department of Bioinformatics	2013 Boston University School of Medicine
RESEARCH ASSISTANT Department of Endocrinology	2012 Boston University School of Medicine

## TEACHING

1. APPLIED SURVIVAL ANALYSIS SP 2022  
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.
2. 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.
3. 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.
4. INTRODUCTION TO STATISTICAL COMPUTING SP 2014, FA 2014  
An introductory graduate level course that introduces SAS to analyze public health data.

## AWARDS

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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

- CHET Pilot Grant Reviewer: University of Kentucky, College of Medicine 2021-PRESENT
- PhD Program Oversight Committee: University of Kentucky, Department of Biostatistics 2020-PRESENT
- PhD Comprehensive Exam Committee: University of Kentucky, Department of Biostatistics 2020-PRESENT
- Biostatistics Student Association Vice President: Boston University, Department of Biostatistics 2013-2015
- Biostatistics Student Association Treasurer: Boston University, Department of Biostatistics 2012-2013

### JOURNAL REVIEWS

- *Journal of the American Heart Association*, Statistical Reviewer 2020-PRESENT
- *Frontiers in Cardiology*, Reviewer 2022
- *Chronobiology International*, Reviewer 2021
- *Metabolism*, Reviewer 2019
- *Annals of the American Thoracic Society*, Reviewer 2019
- *BMJ Open*, Reviewer 2019
- *Journal of Women's Health*, Reviewer 2019

### REVIEW PANELS

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

## PRESENTATIONS - AS PRESENTER

1. Adjustment for Race in Epidemiologic Studies. May 2022 University of Kentucky CCTS BERD Bites. Lexington, Kentucky. (Oral).
2. Health for All Y'All: Health Equity Panel Discussion. 2022 University of Kentucky National Public Health Week. Lexington, Kentucky. (Oral).
3. Impact of Including Smoking Duration Data in Atherosclerotic Cardiovascular Disease Risk Estimation. 2020 American Heart Association Scientific Sessions. Virtual. (ePoster).
4. HIV as a Risk Factor for Incident Pulmonary Hypertension. 2020 Conference on Retroviruses and Opportunistic Infections. Boston, Massachusetts. (ePoster).
5. 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).
6. Lifetime Smoking and Risk of CVD and Lung Cancer. September 2019 Pizza and Pilots Meeting, University of Kentucky. (Oral).
7. Epidemiology and Biostatistics: Using Math to Improve Health without Touching Blood. 2019 Jesse D. Jones Lecture, Murray State University. (Oral).
8. 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).

9. 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).
10. An Introduction to Splines. February 2018 Veterans Aging Cohort Study Statistical Working Group Meeting, Webinar. (Oral).
11. 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).
12. Burden of Disease Variants in Participants of the Long Life Family Study. 2014 Annual Genome Science Institute Research Symposium, Boston University. (Poster).

## CURRENT FUNDING

Grant Number	Title	Funder	Role	Years
KL2TR001996-05A1	The Power of Social Determinants of Health: An Avenue for Eliminating Race-Based CVD Risk Estimation	UK CCTS	PI	2021-PRESENT
	This project seeks to use data from 5 NHLBI-funded cohort studies to estimate 10-year cardiovascular disease risk in a more accurate and equitable manner in Hispanic and non-Hispanic Black and White Americans.			
UL1TR001998-05A1	Kentucky Center for Clinical and Translational Science	NCATS	Co-I	2021-PRESENT
	The CCTS provides infrastructure and support of clinical and translational investigators, fostering collaborations between basic and clinical scientists, training future clinical and translational scientists and enhancing community engagement to confront health issues in Appalachia.			

## PRIOR FUNDING

Grant Number	Title	Funder	Role	Years
Internal Funds	Biostatistical Support in Cardiovascular Research	CVRPA	PI	2020-2021
	Oversee a team of analysts to complete statistical analyses for ongoing projects within the Cardiovascular Research Priority Area (CVRPA)			
R01HL146588	Clinical, Genetic, and Proteomic Risk Factors for Pulmonary Hypertension in Heart Failure	NHLBI	Statistician	2019-2021
	This project undertakes epidemiologic, genetic, and proteomic studies of pulmonary pressure in large electronic health record cohorts to better understand the determinants of pulmonary pressure and associated outcomes.			
18SFRN3397001	Clinical and Genetic Determinants of Peripheral Artery Disease, Microvascular Disease, and Major Adverse Limb Outcomes	AHA	Statistician	2018-2021
	This is the population project within the AHA Strategically Focused Vascular Research Network Center at Vanderbilt University Medical Center. This project aims to understand the epidemiology and genetic architecture of peripheral artery disease and microvascular disease related to the risk of major adverse limb events.			
R01HL129856	Protein Biomarkers for CVD Prediction in HIV-Infected and Uninfected Veterans	NHLBI	Statistician	2016-2020

Using the VACS biomarker cohort, the goals of this project are to: 1) discover a broad range of protein biomarkers using SOMAscan technology to predict CVD and mortality events; 2) identify a small multi-protein panel of biomarkers among HIV+ individuals to predict cardiovascular outcomes and mortality events; and 3) determine whether an optimal combination of proteins in a panel derived in Aim 2 can improve on the prognostic performance of existing models based on traditional risk factors.

R01HL125032 Immune Function and the Risk of CVD Among HIV Infected and Uninfected Veterans NHLBI Statistician 2016-2019

This study will leverage the Veterans Aging Cohort Study (VACS) biomarker cohort, a longitudinal, prospective observation cohort of 1525 HIV+ and 853 HIV- Veterans. We propose to measure immune cell types and subsets from existing cryopreserved cells collected in 2005-2006 and (2) to adjudicate CVD events (i.e., acute myocardial infarction, coronary heart disease, ischemic stroke, heart failure, and CVD death) from 2005-2018.

R01HL126555 Cardiac Pathology and Risk Prediction For Sudden Cardiac Death in Patients with HIV NHLBI Statistician 2016-2019

This study will leverage the VACS virtual cohort to examine the association between HIV and sudden cardiac death and to assist with the construction of a sudden cardiac death tool for risk prediction.

## PEER REVIEWED ARTICLES

### WRITING IN PROGRESS

1. **Duncan, M. S.**, Jaworski, J., Greevy, R. A., Lipworth, L., Vasan, R. S., Freiberg, M. S., Tindle, H. A., Aldrich, M. C. Interaction between Smoking Habits and Polygenic Risk Score and Impact on Lung Cancer Risk.
2. **Duncan, M. S.**, Greevy, R. A., Robbins, N. N., Wernke, S. A., Jackson, S., Beatty, A. L., Thomas, R. J., Whooley, M. A., Freiberg, M. S., Bachmann, J. M. Geographic Variation in Cardiac Rehabilitation Access.
3. Biddle, M., **Duncan, M. S.**, Heier, K. R., Brewer, D., Woods, T. Reducing Cardiovascular Risk among participants in a Community Supported Agriculture Program.
4. Sung, M. L., Eden, S. K., Becker, W. C., Crystal, S., **Duncan, M. S.**, Gordon, K. S., Kerns, R. D., Kundu, S., Freiberg, M. S., So-Armah, K. A., Edelman, E. J. The Association of Prescribed Opioids and Incident Cardiovascular Disease.

### UNDER REVIEW

1. Aday, A. W., **Duncan, M. S.**, Patterson, O. V., Alcorn, C. W., Wells, Q. S., Beckman, J. A., Freiberg, M. S. Sex, Race, and Incident Peripheral Artery Disease: New Insights Among 75,169 Veterans with Normal Baseline Ankle-Brachial Indices.
2. Hamm, J., **Duncan, M. S.**, Robertson, N. M., Keck, J. W., Crabtree, K. COVID-19 in Refugee and Immigrant Populations in a Kentucky Emergency Department during 2020.

### ACCEPTED

1. Leachman, J., Heier, K., Lei, F., Ahmed, N., Dalmaso, C., **Duncan, M. S.\***, Loria, A. S.\* Sex-specific Effects of Adverse Childhood Experiences on Adiposity and Metabolic Disease Risk Markers in a Mutiracial Cohort. *Biology of Sex Differences*.

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\*Equal contribution

- Ahmed, T., Chishti, E., Sinner, G. J., **Duncan, M. S.**, Leung, S. W., Ramachandran, P. A Report on Short Term Follow-Up Cardiac Imaging and Clinical Outcomes of Myocarditis after COVID-19 Vaccination. *Journal of Cardiovascular Medicine*.

PUBLISHED

- 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>
- 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>
- 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>
- 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>
- 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*.  
URL <https://www.sciencedirect.com/science/article/pii/S2666756821001161>
- Zola, C. E.\*, **Duncan, M. S.\***, So-Armah, K., Crothers, K. A., Butt, A. A., Gibert, C. L., Kim, J. W. W., Lim, J. K., Re, V. L., Tindle, H. A., Freiberg, M. S., & Brittain, E. L. (2020). HIV- and HCV-specific markers and echocardiographic pulmonary artery systolic pressure among United States veterans. *Scientific Reports*, 10(1).  
URL <https://pubmed.ncbi.nlm.nih.gov/33127959/>
- Zifodya, J. S., **Duncan, M. S.**, So-Armah, K. A., Attia, E. F., Akgün, K. M., Rodriguez-Barradas, M. C., Marconi, V. C., Budoff, M. J., Bedimo, R. J., Alcorn, C. W., Hoo, G. W. S., Butt, A. A., Kim, J. W., Sico, J. J., Tindle, H. A., Huang, L., Tate, J. P., Justice, A. C., Freiberg, M. S., & Crothers, K. (2020). Community acquired pneumonia and risk of cardiovascular events in people living with hiv. *Journal of the American Heart Association*, 9(23), e017645.  
URL <https://www.ahajournals.org/doi/abs/10.1161/JAHA.120.017645>
- Walker, M. E., Xanthakis, V., Peterson, L. R., **Duncan, M. S.**, Lee, J., Ma, J., Bigornia, S., Moore, L. L., Quatromoni, P. A., Vasan, R. S., & Jacques, P. F. (2020). Dietary Patterns, Ceramide Ratios, and Risk of All-Cause and Cause-Specific Mortality: The Framingham Offspring Study. *The Journal of Nutrition*.  
URL <https://academic.oup.com/jn/advance-article/doi/10.1093/jn/nxaa269/5906635>

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\*Equal contribution

9. Hu, J.-R., **Duncan, M. S.**, Morgans, A. K., Brown, J. D., Meijers, W. C., Freiberg, M. S., Salem, J.-E., Beckman, J. A., & Moslehi, J. J. (2020). Cardiovascular effects of androgen deprivation therapy in prostate cancer. *Arterioscler Thromb Vasc Biol*, (pp. ATVBAHA119313046–ATVBAHA119313046)
10. Cresci, S., Zhang, R., Yang, Q., **Duncan, M. S.**, Xanthakis, V., Jiang, X., Vasani, R. S., Schaffer, J. E., & Peterson, L. R. (2020). Genetic Architecture of Circulating Very-Long-Chain (C24:0 and C22:0) Ceramide Concentrations. *Journal of Lipid and Atherosclerosis*, 9(1), 172–183
11. Kim, E. S., Tindle, H. A., Kubzansky, L. D., Liu, S., **Duncan, M. S.**, Manson, J. E., Springfield, S., Salmoirago-Blotcher, E., Shadyab, A. H., Liu, B., Grodstein, F., & DeVivo, I. (2019). The Relation of Optimism to Relative Telomere Length in Older Men and Women. *Psychosomatic Medicine*, (p. 1). URL <http://journals.lww.com/10.1097/PSY.0000000000000764>
12. McGrath, E. R., Himali, J. J., Xanthakis, V., **Duncan, M. S.**, Schaffer, J. E., Ory, D. S., Peterson, L. R., DeCarli, C. S., Pase, M. P., Satizabal, C. L., Vasani, R. S., Beiser, A. S., & Seshadri, S. (2019). Plasma Ceramides and Risk of Dementia. *Alzheimer's & Dementia*, 15(7), P1033
13. Patel, D. K., **Duncan, M. S.**, Shah, A. S., Lindman, B. R., Greevy, R. A., Savage, P. D., Whooley, M. A., Matheny, M. E., Freiberg, M. S., & Bachmann, J. M. (2019). Association of Cardiac Rehabilitation with Decreased Hospitalization and Mortality Risk after Cardiac Valve Surgery. *JAMA Cardiology*, (pp. E1–E10)
14. Nwabuo, C. C., **Duncan, M. S.**, Xanthakis, V., Peterson, L. R., Mitchell, G. F., McManus, D., Cheng, S., & Vasani, R. S. (2019). Association of Circulating Ceramides With Cardiac Structure and Function in the Community: The Framingham Heart Study. *Journal of the American Heart Association*, 8(19). URL <https://www.ahajournals.org/doi/10.1161/JAHA.119.013050>
15. **Duncan, M. S.**, Freiberg, M. S., Jr, R. A. G., Kundu, S., Vasani, R. S., & Tindle, H. A. (2019a). Association of Smoking Cessation With Subsequent Risk of Cardiovascular Disease. *Journal of the American Medical Association*, 322(7), 642–650

### 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
16. 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>
  17. Kaess, B. M., Andersson, C., **Duncan, M. S.**, Larson, M. G., Aasbjerg, K., Gislason, G. H., Torp-Pedersen, C., & Vasani, R. S. (2019). Familial Clustering of Cardiac Conduction Defects and Pacemaker Insertion. *Circulation: Arrhythmia and Electrophysiology*, 12(7), 1–9. URL <https://www.ahajournals.org/doi/10.1161/CIRCEP.119.007150>
  18. **Duncan, M. S.**, Vasani, R. S., & Xanthakis, V. (2019b). Trajectories of Blood Lipid Concentrations Over the Adult Life Course and Risk of Cardiovascular Disease and All-Cause Mortality: Observations From the Framingham Study Over 35 Years. *Journal of the American Heart Association*, 8(11). URL <https://www.ahajournals.org/doi/10.1161/JAHA.118.011433>
  19. Tindle, H. A., **Duncan, M. S.**, Greevy, R. A., Vasani, R. S., Kundu, S., Massion, P. P., & Freiberg, M. S. (2018a). Lifetime Smoking History and Risk of Lung Cancer: Results From the Framingham Heart Study. *Journal of the National Cancer Institute*, 110(11), 1201–1207

20. Peterson, L. R., Xanthakis, V.\*, **Duncan, M. S.\***, Gross, S., Friedrich, N., Völzke, H., Felix, S. B., Jiang, H., Sidhu, R., Nauck, M., Jiang, X., Ory, D. S., Dörr, M., Vasani, R. S., & Schaffer, J. E. (2018). Ceramide remodeling and risk of cardiovascular events and mortality. *Journal of the American Heart Association*, 7(10)
21. Marconi, V. C., **Duncan, M. S.**, So-Armah, K., Lo Re, V., Lim, J. K., Butt, A. A., Goetz, M. B., Rodriguez-Barradas, M. C., Alcorn, C. W., Lennox, J., Beckman, J. A., Justice, A., & Freiberg, M. (2018). Bilirubin is inversely associated with cardiovascular disease among HIV-positive and HIV-negative individuals in VACS (Veterans Aging Cohort Study). *Journal of the American Heart Association*, 7(10), 1–12
22. Beckman, J. A., **Duncan, M. S.**, Alcorn, C. W., So-Armah, K., Butt, A. A., Goetz, M. B., Tindle, H. A., Sico, J. J., Tracy, R. P., Justice, A. C., & Freiberg, M. S. (2018). Association of human immunodeficiency virus infection and risk of peripheral artery disease. *Circulation*, 138(3), 255–265
23. Bachmann, J. M., **Duncan, M. S.**, Shah, A. S., Greevy, R. A., Lindenfeld, J. A., Keteyian, S. J., Thomas, R. J., Whooley, M. A., Wang, T. J., & Freiberg, M. S. (2018a). Association of Cardiac Rehabilitation With Decreased Hospitalizations and Mortality After Ventricular Assist Device Implantation. *JACC: Heart Failure*, 6(2), 130–139
24. Nayor, M., **Duncan, M. S.**, Musani, S. K., Xanthakis, V., LaValley, M. P., Larson, M. G., Fox, E. R., & Vasani, R. S. (2018). Incidence of cardiovascular disease in individuals affected by recent changes to US blood pressure treatment guidelines. *Journal of Hypertension*, 36(2), 436–443.  
URL <http://insights.ovid.com/crossref?an=00004872-201802000-00029>
25. Brittain, E. L., **Duncan, M. S.**, Chang, J., Patterson, O. V., DuVall, S. L., Brandt, C. A., So-Armah, K. A., Goetz, M., Akgun, K., Crothers, K., Zola, C., Kim, J., Gibert, C., Pisani, M., Morris, A., Hsue, P., Tindle, H. A., Justice, A., & Freiberg, M. (2018). Increased echocardiographic pulmonary pressure in HIV-infected and -uninfected individuals in the veterans aging cohort study. *American Journal of Respiratory and Critical Care Medicine*, 197(7), 923–932
26. Wells, Q. S., Freiberg, M. S., Greevy, R. A., Tyndale, R. F., Kundu, S., **Duncan, M. S.**, King, S., Abney, L., Scoville, E., Beaulieu, D. B., Gatskie, V., & Tindle, H. A. (2018). Nicotine metabolism-informed care for smoking cessation: A pilot precision RCT. *Nicotine and Tobacco Research*, 20(12), 1489–1496
27. Bachmann, J. M., Shah, A. S., **Duncan, M. S.**, Greevy, R. A., Graves, A. J., Ni, S., Ooi, H. H., Wang, T. J., Thomas, R. J., Whooley, M. A., & Freiberg, M. S. (2018b). Cardiac rehabilitation and readmissions after heart transplantation. *Journal of Heart and Lung Transplantation*, 37(4), 467–476.  
URL <http://dx.doi.org/10.1016/j.healun.2017.05.017>
28. Tindle, H. A., **Duncan, M. S.**, Liu, S., Kuller, L. H., Fugate Woods, N., Rapp, S. R., Kroenke, C. H., Coday, M., Loucks, E. B., Lamonte, M. J., Progovac, A. M., Salmoirago-Blotcher, E., Walitt, B. T., Yuo, N. C. Y., & Freiberg, M. S. (2018b). Optimism, pessimism, cynical hostility, and biomarkers of metabolic function in the Women’s Health Initiative. *Journal of Diabetes*, 10(6), 512–523
29. Spartano, N. L., **Stevenson, M. D.**, Xanthakis, V., Larson, M. G., Andersson, C., Murabito, J. M., & Vasani, R. S. (2017). Associations of objective physical activity with insulin sensitivity and circulating adipokine profile: the Framingham Heart Study. *Clinical Obesity*, 7(2), 59–69
30. Sebastiani, P., Andersen, S. L., McIntosh, A. I., Nussbaum, L., **Stevenson, M. D.**, Pierce, L., Xia, S., Salance, K., & Perls, T. T. (2016). Familial Risk for Exceptional Longevity. *North American Actuarial Journal*, 20(1), 57–64.  
URL <http://www.tandfonline.com/doi/full/10.1080/10920277.2015.1061946>
31. **Stevenson, M.**, Bae, H., Schupf, N., Andersen, S., Zhang, Q., Perls, T., & Sebastiani, P. (2015). Burden of disease variants in participants of the long life family study. *Aging*, 7(2), 123–132



32. **Stevenson, M., & Porter, J. E. (2009).** Fuzzy Time Series Forecasting Using Percentage Change as the Universe of Discourse. *World Academy of Science, Engineering and Technology*, 55(7), 154–157

## PROFESSIONAL DEVELOPMENT

- Strategic Empowerment Tailored for Health Equity Investigators: NRMN December 2021-PRESENT
- 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

## VOLUNTEER WORK

- COVID-19 VACCINATION CLINIC Lexington, KY · 2021  
Worked in the registration section at the University of Kentucky COVID-19 vaccination site · Ensured that patients had an existing appointment on the given date · Administered screening questions to assess for potential adverse reactions.
- SEXUAL ASSAULT CENTER MEDICAL ACCOMPANIMENT Nashville, TN · 2018-2020  
Take regular on-call shifts · Provide survivors with emotional support and reference material on services provided by the Sexual Assault Center · Aid survivors in making decisions regarding after-hospital plans · Explain the process of the medical legal examination.
- UPWARD BOUND Boston, MA · 2014  
Taught high school students about biostatistics through activities in statistics, clinical trials, genetics, and epidemiology.

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\*Equal contribution