

CURRICULUM VITAE

BRITTANY BUTTS, PHD

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Emory University
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EDUCATION

May 2016	Emory University, Atlanta GA	PhD Dissertation: <i>Effects of Exercise on Epigenetic Pathways in Persons with Heart Failure</i>
May 2010	Georgia State University, Atlanta, GA	Bachelor of Science Major: Nursing
May 2005	University of the Virgin Islands, St Thomas, VI	Bachelor of Science Major: Biology

LICENSES

2010-Present Registered Nurse, State of Georgia

CERTIFICATIONS

2017 CIRTL Associate, Center for the Integration of Research, Teaching, and Learning

HONORS AND AWARDS

2023 Heart of the Students Award, Emory University
2021 Fellow, American Heart Association
2020 Heart of the Students Award, Emory University
2020 Emory Williams Distinguished Undergraduate Teaching Award, Emory University
2020 Early Science Investigator Award, Southern Nursing Research Society
2019 Excellence in Undergraduate Nursing Education Crystal Apple Award, Emory University
2018 Marie Cowan Promising Young Investigator Award, American Heart Association, Council on Cardiovascular and Stroke Nursing
2018 UAB Center for Postdoctoral Education Grant Incentive Award
2016 PhD Silver Bowl Award, Emory University
2015 HFSA Nursing Research Award Finalist

- 2014 Top Poster, Emory University Students and Fellows Scholars' Day
 2130 Travel Award, American Heart Association
 2013 Top Student Poster, Southern Nursing Research Society
 2010 Sigma Theta Tau International Honor Society of Nursing, Georgia State University
 2010 Maymi Walker Chandler Scholarship, Georgia State University
 2010 Kaiser Permanente Undergraduate Nursing Scholarship, Georgia State University
 2007 PRISM Fellowship, Emory University
 2005 Division Fellowship, Emory University
 2005 Science and Mathematics Senior Award, University of the Virgin Islands
 2005 Golden Key International Honor Society, University of the Virgin Islands
 2004 MBRS-RISE Research Assistantship, University of the Virgin Islands
 2004 ENA Academic Scholarship, University of the Virgin Islands
 2004 Senior Female Barnett Frank Class Award, University of the Virgin Islands
 2004 Chemistry Award, University of the Virgin Islands
 2003 Outstanding Calculus Award, University of the Virgin Islands

PROFESSIONAL POSITIONS

2022-present	Faculty	Neuroscience and Behavioral Biology, Emory University
2019-present	Faculty	Laney Graduate School, Emory University
2018-present	Assistant Professor	Emory University School of Nursing
2016-2018	Postdoctoral Fellow	University of Alabama at Birmingham School of Medicine
2017-2018	Adjunct Faculty	University of Alabama at Birmingham School of Nursing
2013-2016	Instructor	Emory University School of Nursing
2010-2015	Registered Nurse	Emergency Department, Dekalb Medical Center
2009-2010	Instructor	Georgia State University
2007-2008	Editor	Center for Science Education, Emory University
2005-2007	Research Assistant	Immunology & Molecular Pathogenesis, Emory University
2002-2005	Research Assistant	University of the Virgin Islands
2004	Assistant Director	Summer Science Academy, University of the Virgin Islands
2004	Paper Grader	Mathematics Department, University of the Virgin Islands

PUBLICATIONS

Articles in Refereed Journals

(*data-based; +senior or corresponding author; student/trainee/mentee author underlined).

1. ***Butts B**, Goeddel LA, Zheng J, Pat B, Powell P, Mobley J, Ahmad S, Steele C, Mcgiffin D, Davies JE, George JF, Melby SJ, Ferrario CM, and Dell'Italia LJ. (2023) Impact of Early Pericardial Fluid Chymase Activation after Cardiac Surgery. *Frontiers in Cardiovascular Medicine*. Volume 10. <https://doi.org/10.3389/fcvm.2023.1132786>
2. Sekikawa A, Wharton W, **Butts B**, Veliky CV, Garfein J, Li J, Goon S, Fort A, Li M, Hughes TM. (2022) Potential Protective Mechanisms of S-equol, a Metabolite of Soy Isoflavone by the

- Gut Microbiome, on Cognitive Decline and Dementia. *Int J Mol Sci.* 23(19):11921. doi: 10.3390/ijms231911921.
3. ***Butts B**, Brown JA, Denney, Jr. TS, Ballinger S, Lloyd SG, Oparil S, Sanders P, Merriman TR, Gaffo A, Singh J, Kelley EE, Calhoun DA, and Dell'Italia LJ. (2022) Racial Differences in XO (Xanthine Oxidase) and Mitochondrial DNA Damage-Associated Molecular Patterns in Resistant Hypertension. *Hypertension.* 78(4): 775-784/
 4. **Butts B**, Alford T, Brewster G, Carlson N, Coleman E, Davis E, Ferranti E, Kimble L, Narapareddy L, Wells J, and Yang I. (2022) Adaptation of Metabolomics and Microbiomic Research Protocols During the COVID-19 Pandemic. *Nursing Research.* 71(2): 128-137.
 5. *Gary RA, Paul S, Corwin E, **Butts B**, Miller AH, Hepburn K, and Waldrop-Valverde D. (2022) Exercise and Cognitive Training Intervention Improves Self-Care, Quality of Life and Functional Capacity in Persons with Heart Failure. *Journal of Applied Gerontology.* DOI: 10.1177/0733464820964338
 6. Ahn A, **Butts B**, Cottrell DB, Kesey J, McNeill CC, Mumba MN, O'Brien T, Reifsnider E, and Reilly CM. (2022) Partnerships to Improve Social Determinants of Health, Health Equity, and Health Outcomes: An SNRS Whitepaper. *Research in Nursing & Health.* 45 (1): 8-10.
 7. *Bidwell JT, Hostinar CE, Higgins MK, Abshire MA, Cothran FA, **Butts B**, Miller AH, Corwin E, Dunbar SB. (2021) Caregiver subjective and physiological markers of stress and patient heart failure severity in family care dyads. *Psychoneuroendocrinology.* 133: 105399.
 8. *Pak VM, **Butts B**, Hertzberg V, Collop N, Quyyumi AA, Cox J, Rogers A, and Dunbar SB. (2020) Daytime sleepiness predicts inflammation and ambulatory blood pressure in sleep apnoea. *ERJ Open Res.* 0: 00310-2019 DOI: 10.1183/23120541.00310-2019
 9. ***Butts B**, Ahmed MI, Bajaj NS, Powell PC, Pat B, Litovsky S, Gupta H, Lloyd SG, Denney TS, Zhang X, Aban I, Sadayappan S, McNamara J, Watson MJ, Ferrario CM, Collawn JF, Lewis C, Davies JE, and Dell'Italia LJ. (2020) Reduced Left Atrial Emptying Fraction and Chymase Activation in Pathophysiology of Primary Mitral Regurgitation. *JACC: Basic to Translational Science.* 5(2): 109-122.
 10. ***Butts B**, Calhoun DA, Denney, Jr. TS, Lloyd SG, Gupta H, Gaddam KK, Aban I, Oparil S, Sanders PW, Patel R, Collawn JF, and Dell'Italia LJ. (2019) Plasma Xanthine Oxidase Activity Is Related to Increased Sodium and Left Ventricular Hypertrophy in Resistant Hypertension. *Free Radical Biology and Medicine,* 134:343-349.
 11. *Gary RA, Paul S, Corwin E, **Butts B**, Miller AH, Hepburn K, Williams B, and Waldrop-Valverde D. (2019) Exercise and Cognitive Training as a Strategy to Improve Neurocognitive Outcomes in Heart Failure: A Pilot Study. *The American Journal of Geriatric Psychiatry.* In press.
 12. *+**Butts B**, Butler J, Dunbar SB, Corwin, E, and Gary RA. (2018) Effects of exercise on ASC methylation and IL-1 cytokines in heart failure. *Medicine and Science in Sports and Exercise,* 50(9):1757-1766.
 13. *Gary RA, Dunbar SB, Higgins MK, Corwin EJ, **Butts B**, Hepburn K, Butler, J, and Miller AH (2018) An intervention to improve physical function and caregiver perceptions in family caregivers of persons with heart failure. *Journal of Applied Gerontology,* epub ahead of print.

14. ***Butts B**, Goeddel LA, George DJ, Steele C, Davies JE, Wei CC, Varagic J, George JF, Ferrario CM, Melby SJ, and Dell'Italia LJ. (2017) Increased inflammation in pericardial fluid persists 48 hours after cardiac surgery. *Circulation*, 136: 2284-2286.
15. *+**Butts B**, Dunbar SB, Higgins MK, and Reilly CM. (2017) The Third Time's A Charm: Psychometric Testing and Update of the Atlanta Heart Failure Knowledge Test. *Journal of Cardiovascular Nursing*, 33(1): 13-21.
16. *+**Butts B**, Butler J, Dunbar SB, Corwin E, and Gary RA. (2017) ASC Methylation and Interleukin-1beta Are Associated with Aerobic Capacity in Heart Failure. *Medicine and Science in Sports and Exercise*, 49(6):1072-1078.
17. **Butts B** and Gary RA. (2016) 20 things you didn't know about exercise. *Journal of Cardiovascular Nursing*, 31(5): 387-389.
18. ***Butts B**, Gary RA, Dunbar SB, and Butler J. (2016) Methylation of apoptosis-associated speck-like protein containing a caspase recruitment domain and outcomes in heart failure. *Journal of Cardiac Failure*, 22(5): 340-346.
19. *Reilly CM, Butler J, Culler S, Gary RA, Higgins MK, Schindler P, **Butts B**, and Dunbar SB. (2015) An economic evaluation of a self-care intervention in persons with heart failure and diabetes. *Journal of Cardiac Failure*, 21(9): 719-729.
20. *Dunbar SB, Reilly CM, Gary RA, Higgins MK, Culler S, **Butts B**, and Butler J. (2015) Randomized clinical trial of an integrated self-care intervention for persons with heart failure and diabetes: quality of life and physical functioning outcomes. *Journal of Cardiac Failure*, 21(9): 730-737.
21. **Butts B**, Gary RA, Dunbar SB, and Butler J. (2015) The importance of NLRP3 inflammasome in heart failure. *Journal of Cardiac Failure*, 21(7):586-593.
22. **Butts B** and Gary R. (2015) Co-existing frailty, cognitive impairment and heart failure: implications for clinical care. *Journal of Clinical Outcomes Management*, 22(1).
23. *Dunbar SB, **Butts B**, Reilly CM, Gary R, Higgins MK, Ferranti EP, Culler S, and Butler J. (2014) A pilot test of an integrated self-care intervention for persons with heart failure and concomitant diabetes. *Nursing Outlook*, 62(2): 97-111.

Peer-Reviewed Publications – Submitted/Under review

1. ***Butts B**, Huang H., Hu W. T., Kehoe P. G., Miners J. S., Verble D. D., Zetterberg H., Zhao L., Wharton W. CSF markers of vascular injury correlate with neuroinflammation and disease pathology in an at-risk dementia cohort in the ASCEND study. (*Under review*).
2. *Rogowski M, Kane MS, **Butts B**, Pat B, Bamman M, Dell'Italia L. Transmission Electron Microscopy Skeletal Muscle Mitochondrial Cristae Lysis and Sarcomere Breakdown in Heart Failure with Preserved LV Ejection Fraction in the Rat and Human. (*Under review*)
3. ***Butts B**, Goedell LA, Zheng J, Pat B, Powell P, Mobley J, Ahmad S, Steele C, McGiffin D, Davies JE, George JF, Melby SJ, Ferrario CM, and Dell'Italia LJ. Impact of Early Pericardial Fluid Chymase Activation after Cardiac Surgery. (*Under review*)
4. *+**Kay M**, **Hope C**, Mueller K, Gary RA, **Butts B**. The Effects of Exercise on Telomere Length in Persons with Heart Failure. (*Under review*)
5. Misiura M, **Butts B**, Hammerschlag B, Munkombwe C, Gutierrez A, Dotson V, Wharton W. Intersectionality in Alzheimer's Disease: The role of female sex and African American race in the development and prevalence of Alzheimer's Disease. (*Under review*)

Research Abstracts and Proceedings

(+senior or corresponding author; student/trainee/mentee author underlined)

Each abstract reflects a research presentation at a national or regional conference as noted.

1. +Watson J, Higgins MK, Hepburn K, Dunbar SB, and **Butts B**. (April 2023) Relationship between Perceived Stress, Cardiovascular Risk, and Resilience in Black and African American Family Caregivers of persons with Dementia. Emory University NBB Symposium, Atlanta, GA.
2. Mueller K, Modly L, and **Butts B**. (April 2023) Integrating Climate Change Content into Advanced Pharmacology Courses for Nurse Practitioner Students. Oral Presentation, National Organization of Nurse Practitioner Faculties Annual Conference, Orlando, FL.
3. +**Butts B**, Davis E, Morris A, and Dunbar SB. (March 2023) The association of markers of T cell activation and tissue remodeling with physical symptoms in people with heart failure. Oral Presentation, Southern Nursing Research Society, Orlando, FL.
4. +Madariaga A and **Butts B**. (March 2023) Xanthine Oxidase Activity is Associated with Dyspnea Severity in Black and African American Patients with Heart Failure. Poster Presentation, Southern Nursing Research Society, Orlando, FL.
5. +Davis E, Dunbar SB, Higgins MK, Wood K, Morris A, and **Butts B**. (March 2023) The Influence of the Western Diet, Trimethylamine N-Oxide, and Inflammation on Symptoms in Persons with Heart Failure. Oral Presentation, Southern Nursing Research Society, Orlando, FL.
6. +**Butts B**, Davis E, Morris AA, and Dunbar SB. (November 2022) Heart failure symptoms are associated with markers of T cell activation and tissue remodeling. Oral Presentation, American Heart Association Scientific Sessions, Chicago, IL.
7. +Davis E, Dunbar SB, Higgins MK, Wood K, Morris A, and **Butts B**. (November 2022) Connections Between the Western Diet and Inflammation in Heart Failure. Poster Presentation, American Heart Association Scientific Sessions, Chicago, IL.
8. Frediani JK, Higgins MK, **Butts B**, Gary RA, Hepburn K, and Dunbar SB. (November 2022) Weight Neutral Intervention Improves Metabolic Syndrome Status in Family Caregivers. American Heart Association Scientific Sessions, Chicago, IL.
9. **Butts B**, Hu WT, Huang H, Kehoe PG, Miners S, Verble DD, Zetterberg H, Zhao L, and Wharton W. (July 2022). Two Year Cognitive and Biomarker Change in a Racially Diverse, Middle-aged, Cohort at Risk for Alzheimer's Disease. Poster Presentation, Alzheimer's Association International Conference, San Diego, CA.
10. **Butts B**, Hu W, Huang H, Kehoe P, Miners S, Verble D, Zetterberg H, Zhao L, and Wharton W. (July 2021). Relationship Between Platelet-Derived Growth Factor Receptor- β and Alzheimer's Biomarkers in a Racially Diverse, High-Risk Cohort. Poster Presentation, Alzheimer's Association International Conference, Denver, CO.
11. Davis E, **Butts B**, Higgins MK, and Dunbar SB. (February 2021). Social Support and Self-care in Persons with Heart Failure and Diabetes. Southern Nursing Research Society, New Orleans, LA.
12. +Moore J and **Butts B**. (February 2021). Diet and Inflammatory Cytokines in Black Adults with Heart Failure. Poster Presentation, Southern Nursing Research Society, New Orleans, LA.
- 13.

14. +Bostek A, **Butts B**, Wharton W, and Hu W. (April 2021). Increased Plasma Soluble Adhesion Molecules in Persons Exposed to SARS-CoV-2. Poster Presentation, Preventive Cardiovascular Nurses Association. Virtual Conference.
15. ***Butts B**, Narapareddy L, Brewster G, Wells J, Kimble L, Ferranti E, Carlson C, and Yang I. (March 2021). Developing a Remote Clinical Research Protocol: Lessons Learned in the Age of Covid-19. Oral Presentation, Southern Nursing Research Society. Virtual Conference
16. +Smith, C and **Butts, B**. (October 2020). Effect of Exercise on Telomere Length in Persons with Heart Failure. Poster Presentation, Heart Failure Society of America. Virtual Conference.
17. **Butts, B**, Calhoun, D, and Dell'Italia, LJ. (November 2019). Racial Differences in Oxidative Stress and Cardiovascular Response after Spironolactone Treatment in Resistant Hypertension. Oral Presentation, American Heart Association Scientific Sessions, Philadelphia, PA.
18. Pak, V, **Butts, B**, Hertzberg, V, Collop, N, Quyyumi, AA, Rogers, A, and Dunbar, SB. (November 2019). Symptoms of Daytime sleepiness Predict Inflammation and Ambulatory Blood Pressure in Sleep Apnea. Moderated Poster Presentation, American Heart Association Scientific Sessions, Philadelphia, PA.
19. Higgins, M, Dunbar, SB, Reilly, CM, Gary, R, **Butts, B**, and Butler, J. (November 2019). Co-Morbid HF-DM Disease Sequence Effects on Self-Care and Symptoms Management. Poster Presentation, American Heart Association Scientific Sessions, Philadelphia, PA.
20. +Owen, M and **Butts, B**. (September 2019). A Longitudinal Comparison of Palliative Care Consult in HFrEF and HFpEF Patients. Poster Presentation, Heart Failure Society of America, Philadelphia, PA.
21. **Butts, B**, Goeddel, LA, Steele, C, Davies, JE, Ferrario, CM, Gaggar, A, Collawn, J, and Dell'Italia, LJ. (November 2018). Pericardial Fluid Chymase Activity Four Hours Post Cardiac Surgery is Related to Intensive Care Unit and Total Hospital Length of Stay. Poster Presentation, American Heart Association Scientific Sessions, Chicago, IL.
22. **Butts, B**, Powell, PC, Pat, B, Wong, R, Litovsky, S, Gupta, H, Lloyd, SG, Denney, TS, Zhang, X, Salibi, N, Aban, I, Collawn, J, Davies, JE, and Dell'Italia, LJ. (March 2018). Left Atrial Enlargement and Systolic Failure Is Related to Chymase Activation in Patients with Mitral Regurgitation and Preserved Left Ventricular Ejection Fraction. Poster Presentation, American College of Cardiology Scientific Sessions, Orlando, FL.
23. **Butts, B**, Denney Jr., TS, Aban, IB, Calhoun, DA, and Dell'Italia, LJ. (November 2017). Oxidative Stress is Related to Increased Sodium-Aldosterone Product and Left Ventricular Dysfunction in Resistant Hypertension. Oral Presentation, American Heart Association Scientific Sessions, Anaheim, CA.
24. **Butts, B**, Goeddel, LA, George, DJ, Steele, C, Davies, JE, Wei, C-C, Varagic, J, George, JF, Ferrario, CM, Melby, SJ, and Dell'Italia, LJ. (November 2017). Increased Inflammation in Pericardial Fluid Persists 48 Hours After Cardiac Surgery. Poster Presentation, American Heart Association Scientific Sessions, Anaheim, CA.
25. **Butts, B** and Gary, RA. Factors Associated with Performance on A Symptom Limited Exercise Treadmill Test in Persons with Heart Failure. (February 2017) Poster Discussion Presentation, Southern Nursing Research Society, Dallas, TX.

26. **+Butts, B**, Butler, J, Dunbar, SB, Corwin, EJ, and Gary, RA. (November 2016). Interleukin1 β and Methylation of Apoptosis Associated Speck-Like Protein Containing a Caspase Recruitment Domain Are Associated with Aerobic Capacity in Heart Failure. Oral Presentation, American Heart Association Scientific Sessions, New Orleans, LA.
27. Reilly, CM, **Butts, B**, Higgins, MK, Dunbar, SB. (November 2016). The Third Time's A Charm: Factor Analysis, Further Psychometric Testing, and Update of the Atlanta Heart Failure Knowledge Test. Oral Abstract Presentation, American Heart Association Scientific Sessions, New Orleans, LA.
28. **+Butts, B**, Dunbar, SB, Butler, J, and Gary, RA. (September 2016). Effects of an exercise intervention on ASC methylation and IL-1 cytokines in persons with heart failure. Rapid Fire Abstract Presentation, Heart Failure Society of America, Orlando, FL.
29. **+Butts, B**, Reilly, CM, Gary, RA, Higgins, MK, and Dunbar, SB. Factors affecting heart failure knowledge and retention after an integrated self-care intervention in persons with heart failure and diabetes. (February 2016) Poster Presentation, Southern Nursing Research Society Annual Conference, Williamsburg, VA.
30. **+Butts, B**, Gary, RA, Dunbar, SB, and Butler, J. (November 2015) ASC methylation and outcomes in heart failure. E-Abstract Oral Presentation, American Heart Association Scientific Sessions, Orlando, FL.
31. Ferranti, EP, **Butts, B**, Reilly, CM, and Dunbar, SB. (November 2015) Dietary omega-3 fatty acids and fiber intake increase adiponectin levels in African American adults with metabolic syndrome. Poster Presentation, American Heart Association Scientific Sessions, Orlando, FL.
32. **Butts, B**, Gary, RA, Dunbar, SB, and Butler, J. (September 2015) ASC Methylation and Expression are Associated with Depressive Symptoms, Anxiety, and Quality of Life in Heart Failure. Oral Presentation, Heart Failure Society of America, National Harbor, MD.
33. **Butts, B** and Butler, J. (July 2015) DNA methylation of ASC is associated with decreased ASC and IL-1 β expression in heart failure. Poster Presentation, Basic Cardiovascular Sciences Scientific Sessions, New Orleans, LA.
34. **Butts, B**, Gary, RA, Dunbar, SB, and Butler, J. Patterns of ASC Methylation are Associated with Ejection Fraction, Quality of Life and Depression in Persons with Heart Failure. (February 2015) Poster Discussion Presentation, Southern Nursing Research Society Annual Conference, Tampa, FL.
35. Higgins, MK, Dunbar, SB, Gary, RA, Reilly, CM, and **Butts, B**. Modified scoring and analysis approach of the CHAMPS physical activity questionnaire and its relationship to six minute walk physical functioning. (February 2015) Poster Presentation, Southern Nursing Research Society Annual Conference, Tampa, FL.
36. Kim, J, Higgins, MK, **Butts, B**, and Dunbar, SB. (February 2015) Influence of baseline self-efficacy on self-care in response to an integrated heart failure and diabetes mellitus self-care intervention. Poster Presentation, Southern Nursing Research Society Annual Conference, Tampa, FL.
37. **Butts, B**, Gary, RA, Reilly, CM, Higgins, MK, Butler, J, and Dunbar, SB. (November 2014) Effects of an integrated self-care intervention on frailty risk in persons with heart failure and type 2 diabetes mellitus. Oral presentation, American Heart Association Scientific Sessions, Chicago, IL.

38. **Butts, B**, Gary, RA, Dunbar, SB, Higgins, MK, Miller, A, and Corwin, E. (April 2014) Caregiver stress and cardiovascular disease risk among female family caregivers of persons with heart failure. Poster presentation, Preventive Cardiovascular Nurses Association, Atlanta, GA.
39. **Butts, B**, Gary, RA, Reilly, CM, Culler, S, Butler, J, and Dunbar, SB. (February 2014) Barriers to exercise in persons with heart failure and type 2 diabetes mellitus. Poster presentation, Southern Nursing Research Society Annual Conference, San Antonio, TX.
40. **Butts, B**, Gary, RA, Reilly, CM, Culler, S, Butler, J, and Dunbar, SB. (February 2013) Effect of an integrated heart failure and diabetes self-care intervention on quality of life and self-care behaviors. Poster presentation, Southern Nursing Research Society Annual Conference, Little Rock, AR.
41. **Marshall, B** and Romano, S. (November 2004) Molecules and morphology may support different hypotheses about the evolutionary history of species of the common reef-building coral, *Acropora*. Poster presentation, Annual Biomedical Research Conference for Minority Students, Dallas, TX.
42. **Marshall, B** and Romano S. (February 2004) Are morphological species of *Acropora* coral supported by genetic differences? Oral presentation, NSF HBCU-UP National Conference at North Carolina Agriculture and Technology University in Greensboro, NC.

RESEARCH GRANTS

- 2023 Cardiovascular Disease Risk and Cellular Aging among Heart Failure and Alzheimer's Disease Family Caregivers (Butts). Emory University Office of Nursing Research Pilot Award (PI, In kind effort) Total costs: \$15,000. Funding Period: 04/2023–03/2024.
- 2023 Remote Monitoring to Improve Equity in the Care of Black Patients with Hypertensive Heart Failure (Morris). Google Health Equity Grant. (Co-I, In kind effort) Funding Period: 1/2023–12/2023
- 2022 Midlife Vascular Risk Factors for Alzheimer's Disease in Persons with HFpEF (Butts). NIH National Institute on Aging, K23AG076377 (PI, 75% effort). Total costs: \$963,900. Funding Period: 12/2022–11/2027.
- 2022 ADRC Research Education Component (Weinshenker). NIH National Institute on Aging, P30AG066511. (Pilot PI, In kind effort) Total costs: \$30,000. Funding Period: 05/2022–04/2024.
- 2020 Sex Differences in Cardiovascular Inflammatory Response to SARS-CoV-2 (Butts). SCORE Acceleration Award (PI, In kind effort). Funding period: 9/09/2020 – 9/09/2021.
- 2020 Sex Differences in Inflammatory Correlates of Heart Failure Symptoms (M. Holstad, Core PI). NIH National Institute on Aging, U54AG062334 (Pilot PI, In kind effort). Total costs: \$27, 099 Funding Period: 03/20–03/21.
- 2020 Metabolomic Pathways to Fatigue, Depression, Anxiety, and Dyspnea in Black Adults with Heart Failure and Hypertension (M Song). NIH National Institute of Nursing Research, P30NR018090 (Pilot PI, 20% effort). Total costs: \$100,000 Funding Period: 01/20–01/22
- 2017 Symptoms and Skeletal Muscle in Persons with Heart Failure with Preserved Ejection Fraction (Butts). NIH National Institute of Nursing Research, F32NR017322 (PI, 100% effort). Total Costs: \$113,760 Funding Period: 07/17–07/19

- 2017 REACT Scholar Award (L. Dell'Italia). University of Alabama at Birmingham, Center for Exercise Medicine (Co-I, In kind effort) Total Costs: \$22,000 Funding Period 07/17–07/19
- 2017 Symptoms and Skeletal Muscle in Persons with Heart Failure with Preserved Ejection Fraction (Butts). Sigma Theta Tau International (PI, In kind effort). Total costs: \$5,000 Funding Period: 06/17–05/18
- 2016 Interdisciplinary Training in Pathobiology and Rehabilitation Medicine (M Bamman), NIH National Center for Medical Rehabilitation Research, T32 HD071866 (Fellow, 100% effort). Funding Period: 07/16–07/17
- 2015 Effects of Exercise on Epigenetic Pathways in Persons with Heart Failure (Butts). NIH National Institute of Nursing Research, F31NR015180 (PI, 100% effort). Total costs: \$64,680. Funding Period: 02/15–05/16
- 2014 Effects of Exercise on Epigenetic Pathways in Persons with Heart Failure (Butts). Heart Failure Society of America Nursing Research Grant (PI, In kind effort). Total costs: \$10,000. Funding period: 08/2014–06/2016.
- 2012 Improving Outcomes in Chronic Conditions (S Dunbar), NIH National Institute of Nursing Research, T32NR012715 (Fellow, 100% effort). Funding Period: 09/12–08/14

TEACHING RESPONSIBILITIES

Courses Taught

Emory University:

2020 – 2022	NRSG 502MN	Physiology/Pathophysiology for Nursing Practice
2018 - 2020	NRSG 310	Pathophysiology for Nurses
2016	NRSG 380	Health Assessment
2015-2016	NRSG 314	Clinical Practicum
2015-2022	PRECOL P074	Advances in Cardiovascular Medicine and Technology
2013-2014	NRSG 360	Clinical Nursing I

University of Alabama at Birmingham:

2017-2019	NUR 612	Advanced Pathophysiology
2018	GBS 716	Grantsmanship and Science Writing

University of the Virgin Islands:

2004	Science Academy	Statistics
2004	BIO 245	Principles of Genetics Laboratory

Guest Lectures

Emory University:

2022	NRSG 740	Omics in Health and Disease
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2020, 2021 NRSG 732 Theoretical and Scientific Bases for the Study of
Clinical Phenomena

POSTDOCTORAL MENTORSHIP

School of Nursing, Emory University

2022-2023 Erica Davis, T32 Fellow, Relationships among Dietary Factors, Socio-Cultural
Perceptions, and Symptoms in Persons with Heart Failure

DOCTOR OF PHILOSOPHY ADVISEMENT

School of Nursing, Emory University

2022-present Dissertation chair, Hayden Herring, T32 Fellow

2019-2022 Dissertation co-chair, Erica Davis, T32 Fellow, Food patterns, metabolites, and HF
symptoms

UNDERGRADUATE THESIS AND RESEARCH PROJECT ADVISEMENT

Emory University

2022-2024 J Watson, Emory College student. Majors: Neuroscience and Behavior Biology
and African American Studies. Relationship between Perceived Stress,
Cardiovascular Risk, and Resilience in Black and African American Family
Caregivers of persons with Dementia.

2022-2024 R Young, BSN Honors student. Increased Comorbidities in HFpEF and its
Association with Level of RAS Dysfunction, Inflammation, and Alzheimer's
Disease

2022-2024 E Buchi, BSN student. SURE Fellowship awardee. Stress and cellular aging in
family caregivers of people with heart failure (HF)

2022-2024 H Hudson, BSN Honors student. Relationship between racial stress,
inflammation, and symptoms in persons with heart failure.

2021-2023 A Madariaga, BSN Honors student: Highest Honors. Xanthine oxidase and heart
failure symptoms

2020-2021 CJ Okonkwo, Inflammation and physical symptoms in persons with heart failure

2020-2022 J Moore, BSN Honors student: Honors. Relationship between Nutrition and
Inflammatory Cytokines in Patients with Hypertension and Heart Failure

2019-2021 A Bostek, BSN Honors student: Highest Honors. Increased Plasma Soluble
Adhesion Molecules in Persons Exposed to SARS-CoV-2.

2019-2020 C Smith, Effect of Exercise on Telomere Length in Persons with Heart Failure.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

2021-present Alzheimer's Association International Society to Advance Alzheimer's Research
and Treatment (ISTAART)

2013-present American Heart Association

2013-present Heart Failure Society of America

2012-present Southern Nursing Research Society

2005-present Sigma Theta Tau International Honor Society of Nursing

PROFESSIONAL ACTIVITIES

American Heart Association

Council on Cardiovascular and Stroke Nursing Early Career Committee (2018-2023)

Complex CV Patient and Family Care Committee (2019-present)

Abstract Reviewer (2020-present)

Alzheimer's Association

Abstract reviewer, AAIC Advancements: Immunity (2023)

Southern Nursing Research Society

Director of RIGs (2021-2022)

Chair, Biobehavioral Research Interest Group (2017-2021)

Awards Committee (2017-2020)

Program Committee (2017-2021)

Abstract Reviewer (2016-present)

Student Representative (2014-2015)

Sigma Theta Tau International

President, Alpha Epsilon Chapter (2019-2022)

EDITORSHIPS AND EDITORIAL BOARDS

2021-present Editorial Board, *Journal of Cardiac Failure*

MANUSCRIPT REVIEWER

2015-present Reviewer, *Heart and Lung: The Journal of Acute and Critical Care*

2015-present Reviewer, *Clinical Nursing Research*

2016-present Reviewer, *Western Journal of Nursing Research*

2016-present Reviewer, *Journal of Cardiac Failure*

2018-present Reviewer, *Medicine and Science in Sports and Exercise*

2019-present Reviewer, *Journal of Cardiovascular Nursing*

2019-present Reviewer, *Circulation Journal*

2019-present Reviewer, *Experimental Gerontology*

2019-present Reviewer, *Journal of Cardiovascular Pharmacology and Therapeutics*

2022-present Reviewer, *BMC Cardiovascular Disorders*

SCHOLARLY PRESENTATIONS

National Presentations (Invited)

2016 Not the Usual Suspects in Heart Failure: Novel Cytokine Targets. American Heart Association Scientific Sessions, New Orleans, LA (November).

Workshops/Symposia

- 2019 A Practical Guide for Using 'Omics in Your Research. Southern Nursing Research Society, Orlando, FL (February).
- 2022 Genomics 101: Gaining Understanding of Genomics in Research. UNC Charlotte, Charlotte, NC. (August).
- 2023 Using Omics in Research: Insights from the P30 Center on Symptoms and Metabolomics. Southern Nursing Research Society, Orlando, FL (February).

Regional Presentations (Invited)

- 2017 The PhD and Zombies: A Survival Guide. Southern Nursing Research Society, Dallas, TX (February).

SERVICE**Emory University School of Nursing**

- 2023-present Member, Provost's Graduate and Professional Teaching Award Selection Committee
- 2021-2022 Member, Emory Williams Distinguished Undergraduate Teaching Award Selection Committee
- 2020-present Member, Scholar's Day Committee
- 2020-2022 Member, Progression Committee
- 2019-present Poster Judge, Scholar's Day
- 2019-2020 Member, Governance Committee
- 2018-2020 Member, Research Committee

Emory University

- 2020 Volunteer, Student Return to Campus COVID Testing
- 2013-2015 Laney Graduate School Representative, Health Insurance Committee

Continuing Coursework/Education