

MELINDA K. (DENNY) HIGGINS, PHD
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Education

| Dates | Institution and Location | Degree (<i>major</i>) |
|-------------|---|--|
| 1985 - 1989 | Saint Andrews Presbyterian College, Laurinburg, NC | BS (<i>Double Major: Math and Chemistry</i>) |
| 1989 - 1994 | University of South Carolina, Columbia, SC | PhD (<i>Chemometrics/Analytical Chemistry</i>) |
| 1994 - 1995 | University of South Carolina, Columbia, SC | MS (<i>Statistics</i>) |

Licenses and Certifications

| Date | Certification |
|-----------|---|
| 1998 | Project Director (<i>Georgia Tech Research Institute</i>) |
| 1997-2012 | SECRET Security Clearance (<i>Georgia Tech Research Institute</i>) |
| 2001-2012 | TOP SECRET (SCI/DCID 6/4) Security Clearance (<i>Georgia Tech Research Institute</i>) |

Honors and Awards

| Year | Award |
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| 2018 | ASA Award for Outstanding Chapter Service |
| 1995 | First Place Annual Student Paper Competition SC Chapter of the American Statistical Association |
| 1994 | Mu Sigma Rho (Statistical Honor Society), Inducted |
| 1994 | Professional Women on Campus Award for an Outstanding Paper by a Woman Graduate Student, University of South Carolina, Columbia, SC |
| 1989 | Mobay Fellowship, University of South Carolina, Columbia, SC |
| 1989 | Inducted into Alpha Chi (Chemical Honor Society) |

Professional Positions

| Dates | Position | Institution |
|-------------------|--|---------------------------------|
| 08/2021 - current | Director Biostatistics and Data Core – Office of Nursing Research | Emory University |
| 04/2019 - current | Research Professor | Emory University |
| 04/2007 - 03/2019 | Associate Research Professor | Emory University |
| 07/2005 - 01/2011 | Principal Research Scientist | Georgia Tech Research Institute |
| 07/2000 - 06/2005 | Senior Research Scientist | Georgia Tech Research Institute |
| 02/1996 - 06/2000 | Research Scientist II | Georgia Tech Research Institute |
| 10/1995 - 01/1996 | Temporary Technical Advisor | Georgia Tech Research Institute |

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| 08/1994 - 09/1995 | Professor of Record (Statistics 201) | University of South Carolina |
| 08/1989 - 07/1994 | Teaching Assistant, Honors Chemistry | University of South Carolina |
| 08/1989 - 07/1994 01/1990 - 07/1994 | Graduate Research Assistant Assistant Instructor (<i>Experimental Design for Productivity and Quality in Research and Development and Manufacturing Short Course</i>) | University of South Carolina Statistical Designs |
| 08/1988 - 05/1989 06/1986 - 08/1989 | Statistical Research Consultant Laboratory Assistant | Waverly Mills Georgia Tech Research Institute |

Scholarship: Grants and Other Funding

Research Grants Under Review

Roybal Center for Dementia Family Caregiver Mastery (PI: Kenneth Hepburn)
(NIH, 5%, Co-investigator, 2024-04-01 to 2029-03-31, total costs \$5,861,535)

Anti-Transgender and Gender Diverse Stigma and Early Physiologic Aging among a Cohort of Transgender Women in the United States (PI: Athena Sherman)
(NIH, 10-20%, Co-investigator, 2024-04-01 to 2028-03-31, total costs \$2,219,802)

Testing a Behavioral Intervention with BedDot on Sleep of Persons Living with Cognitive Impairment and Their Care Partners (PI: Glenna Brewster)
(Oregon Health and Science University, 10%, Co-investigator, 2025-06-01 to 2028-05-31, total costs \$961,026)

Angiotensin II Modulation and ADRD Risk in Persons with Heart Failure (PI: Brittany Butts)
(NIH, 5%, Co-investigator, 2024-04-01 to 2026-03-31, total costs \$313,000)

Remote Exercise for Enhancing Cardiometabolic and Brain Health in Midlife Adults Exposed to Early Life Adversity (PI: Jacob Kariuki)
(NIH, 5%, Co-investigator, 2024-04-01 to 2029-03-31, total costs \$4,100,830)

ENCOURAGE-ATL (PI: Kabayam Venkat Narayan)
(Morehouse School of Medicine, 10%, Co-investigator, 2023-09-01 to 2028-08-31, total costs \$516,395)

Optimizing A Home-Based Exercise Program to Improve Psychoneurological Symptoms in Underserved Women with Gynecologic Cancers: A Feasibility and Acceptability Study (PI: Amirhanzadeh-Barandouzi)

(Oncology Nursing Society Foundation, 2%, Co-investigator, 2024-03-01 to 2026-02-28, total costs \$50,000)

Trauma-informed Data Science to Prevent Intimate Partner Violence Among Pregnant and Postpartum Women (PI: Sangmi Kim)

(NIH, 10%, Co-investigator, 2024-07-01 to 2026-06-30, total costs \$433,722)

Using AI on Routine Clinical and Imaging Data from Acute Stroke Encounter to Predict Post-Stroke Vascular Contributions to Cognitive Impairment (AI-RESPECT) (PI: Xiao Hu)

(NIH, 10%, Co-investigator, 2024-07-01 to 2029-06-30, total costs \$3,887,428)

Tele-Savvy@Home: An Interactive Asynchronous Online Psychoeducation Program for Dementia Family Caregivers (PI: Fayon Epps)

(NIH, 5%, Co-investigator, 2024-07-01 to 2029-06-30, total costs \$3,875,588)

Research Grants Funded

Caregiver as Navigator-Developing Skills Online (CAN-DO): Developing Dementia Family Caregiver Mastery for Navigating Complex Health, Social Service, Legal, Financial, and Family Systems (PI: Carolyn Clevenger/Kenneth Hepburn)

(NIH [R01 AG082833], 10%, Co-investigator, 2023-09-01 to 2028-05-31, total costs \$3,518,541)

Caregiving While Black-LIVE: Empowering Black Dementia Caregivers to Navigate Care (PI: Fayon Epps)

(NIH [R21 AG083366], 3%, Co-investigator, 2023-09-01 to 2025-08-31, total costs \$430,375)

Novel Algorithm and Data Strategies to Detect and Predict Atrial Fibrillation for Post-Stroke patients (NADSP) (PI: Hu, Xiao)

(NIH [R01HK166233], 10%, Co-investigator, 2023-03-01 to 2027-02-28, total costs \$3,807,538)

Caregiving while Black: Optimizing Outcomes for Black Dementia Caregivers (PI: Epps, F.)

(University of California Davis / Betty Irene Moore Fellowship for Nurse Leaders and Innovators, 3%, Co-investigator, 2022-07-01 to 2025-06-30, total costs \$500,000)

Early risk factors of accelerated neural aging trajectories and cognitive decline: A nonhuman primate longitudinal model (PI: Sanchez)

(Oregon Health & Science University/NIH [R01AG070704], 5 %, Co-investigator, 2021-08-01 to 2026-04-30, total costs \$5,594,491)

Georgia Center for Diabetes Translation Research Renewal (PI: Venkat-Narayan, K.)
(NIDDK [2P30DK111024], 4 %, Co-investigator, 2021-07-01 to 2026-07-31,
total costs \$3,956,934)

Biologic Mechanisms of Labor Dysfunction: A Systems Biology Approach (PI: Carlson, N.)
(NINR [R01NR019254], 8 %, Co-investigator, 2021-08-01 to 2026-05-31, total
costs \$1,842,321)

Combustion of plastic waste and human health effects in Guatemala (PI: Thompson, L.)
(NHLBI [R01ES032009], 3 %, Co-investigator, 2021-08-01 to 2026-05-31, total
costs \$2,609,412)

**NIA AD/ABDR Health Care Systems Research Collaboratory Pilot Pragmatic Clinical Trial to Embed
Tele-Savvy into Health Care Systems - Subcontract University of Connecticut Health Center (PI:
Hepburn, K.)**
(NAIG [U54AG0635]/University of Connecticut, 3 %, Co-investigator, 2021-08-
01 to 2022-06-30, total costs \$68,358)

**Early Life Stress, Chronic Drug Use and Neuroplasticity in Nonhuman Primate Models of Cocaine
Abuse: Relevance to Treatment Strategies (PI: Sanchez)**
(NIDA [R01 DA052909-01A1], 5 %, Co-investigator, 2021-04-01 to 2026-03-31,
total costs \$4,333,744)

**Roybal Translational Research Center to Promote Context-Specific Caregiving Mastery for Informal
Caregivers of Community-Dwelling Persons Living with Alzheimer's Disease or Related Disorders
[SUPPLEMENT] (PI: Hepburn, Kenneth)**
(NIH, 10 %, Co-investigator, 2020-03-15 to 2022-05-31, total costs \$172,773)

**Yoga for female veterans with PTSD symptoms and military sexual trauma exposure (PI: Higgins,
Melinda)**
(US Dept of Veterans Affairs (VANAP/ IPA), 6 %, PI, 2020-10-01 to 2021-04-30, total costs \$33,372)

Asynchronous Distributed Multielectrode Neuromodulation for Epilepsy (PI: Gross)
(NINDS, 2 %, PI, 2016-09-30 to 2023-03-30, total costs \$4,773,377)

**Roybal Translational Research Center to Promote Context-Specific Caregiving Mastery for Informal
Caregivers of Community-Dwelling Persons Living with Alzheimer's Disease or Related Disorders
(PI: Hepburn, Kenneth)**
(NIH [P30AG064200], 10 %, Co-investigator, 2019-09-15 to 2024-05-31, total costs \$3,662,804)

**Developing a Distance Education System to Train Savvy Caregiver Program Interventionists:
Extending Access and Capacity in Community-Based Delivery of Evidence-Based Interventions (PI:
Hepburn, Kenneth)**
(NIH [R01AG061971], 7.5 %, Co-investigator, 2018-09-30 to 2023-05-31 (05/2023 NCE
pending), total costs \$2,146,377)

Testing Tele-Savvy, an On-line Psychoeducation Program for Informal Alzheimer's Caregivers (PI: Hepburn, Ken/Griffiths, Patty)

(NIH/NIA [1R01AG054079], 10 %, Co-investigator, 2016-08-01 to 2020-04-30, total costs \$2,888,028)

Yoga for female veterans with PTSD symptoms and military sexual trauma exposure (PI: Higgins, Melinda)

(US Dept of Veterans Affairs (VANAP/ IPA), 5 %, PI, 2016-06-01 to 2020-05-31, total costs \$33,372)

Early Life Stress and Adolescent Cocaine Abuse (PI: Sanchez, M. & Howell, L.)

(NIH-NIDA, R01 DA038588, 5 %, Co-investigator, 2014-09-30 to 2020-07-31, total costs \$754,410)

Stress and Obesity Synergize to Impair Neurobehavioral Development in Females (PI: Wilson, M. & Sanchez, M.)

(NIH-NICHHD, R01 HD077623, 5 %, Co-investigator, 2013-07-10 to 2018-06-30, total costs \$723,535)

Audio Music Self-Management Program to Improve Antiretroviral (ART) Adherence in Rural GA (PI: Holstad, Marcia)

(NIH, R01 NR012923, 10 %, Co-investigator, 2012-09-01 to 2017-11-30, total costs \$656,958)

Defining a PD-specific breath fingerprint of underlying inflammatory and neurodegenerative processes (PI: Tansey, Malu)

(Michael J. Fox Foundation, 10 %, Co-investigator, 2015-11-01 to 2017-10-31, total costs \$270,925)

The Living Well Project: Early Palliative Care and Motivational Interviewing for Persons with AIDS (PI: Holstad, Marcia)

(NIH, R01 NR014054, 5 %, Co-investigator, 2012-09-27 to 2017-06-30, total costs \$468,000)

Maternal Stress and Obesity Alter Milk Immunobiology and Impair Infant Growth (PI: Ethun, Kelly)

(NIH/NICHHD [1R21HD079969], 5 %, Biostatistician, 2017-01-01 to 2017-03-31, total costs \$490,875)

Characterization of Heat-Related Illness in Central Florida Farmworkers (PI: Mac, Valerie)

(NIH-NINR, 5F31NR014611, 0 %, Biostatistician Advisor, 2013-12-01 to 2016-11-30, total costs \$42,232)

Sustaining Factors and Interventional Strategies for Emotional Feeding in Females (PI: Wilson, Mark)

(NIH, R01 DK096983, 5 %, Co-investigator, 2013-04-17 to 2016-03-31, total costs \$712,765)

Caregiver Stress: Interventions to Promote Health and Wellbeing (PI: Bauer-Wu, Susan)

(NIH-NINR, P01 NR011587, 20 %, Co-investigator, 2009-09-30 to 2015-07-31, total costs \$650,663)

Fluid Restriction Effects and Economics in Heart Failure (FREE-HEART) (PI: Reilly, Carolyn)

(AHA, 10SDG3720048, 5 %, Co-investigator, 2010-07-01 to 2015-06-30, total costs \$306,006)

Neonatal Programming of Growth and Maturation in Rhesus Monkeys (PI: Muir, Andrew B.)

(NIH-NICHHD, R21 HD075264, 5 %, Co-investigator, 2013-06-15 to 2015-05-31, total costs \$267,748)

African Health Workforce Project (PI: Rogers, Martha)

(Association of Schools of Public Health, S5033, 5 %, Biostatistician, 2013-08-15 to 2014-08-14, total costs \$456,354)

Pilot study to examine the contribution of a calculated three-dimensional radiation therapy (RT) dose distribution on the development of significant CVD events (PI: Reilly, Carolyn)

(RTOG, 2.5 %, Co-investigator, 2013-10-01 to 2014-05-31, total costs \$49,973)

Pregnancy Health Among Florida Farmworkers (PI: McCauley, Linda)

(Centers for Disease Control (CDC), 5R21OH009830, 5 %, Biostatistician, 2009-09-01 to 2013-08-31, total costs \$331,280)

Cost Effectiveness and Quality of Life in Heart Failure Patients with Diabetes (PI: Dunbar, Sandra)

(NIH/NINR, R01NR011888, 10 %, Co-investigator, 2009-09-29 to 2013-07-31, total costs \$462,938)

Psychoneuroimmune Contributions to Postpartum Depression (NIH) (PI: Corwin, Elizabeth)

(NIH, R01 NR011278, 15 %, Biostatistician, 2012-01-01 to 2013-06-30, total costs \$295,251)

Neurobiology of increased vulnerability to social stressors during adolescence (PI: Wilson, Mark)

(NIH/NIMH, 1R01 MH079100, 10 %, Biostatistician, 2008-04-01 to 2013-03-31, total costs \$1,468,315)

Psychosocial disruption of estrogen action on behavior (PI: Toufexis, Donna)

(NIH/NIMH, 1R01 MH081816, 5 %, Biostatistician, 2009-05-01 to 2013-02-28, total costs \$634,396)

A Pilot Analysis of Late-Prematurity and Birth History in Children with Autism (CHOA) (PI: Darcy, Ashley)

(Childrens Healthcare of Atlanta, 2 %, Biostatistician, 2011-11-01 to 2012-10-31, total costs \$24,992)

Prevalence and Correlates of Human Papillomavirus (HPV) Vaccination in Rural Areas (PI: Thomas, Tami)

(Robert Wood Johnson Foundation, 67983, 2 %, Biostatistician, 2010-10-01 to 2012-09-20, total costs \$133,543)

Nursing Care Interactive to Improve CMS Indicators (PI: Hepburn, Ken)

(Healthcare Interactive, AG023451, 10 %, Biostatistician, 2011-11-15 to 2012-08-31, total costs \$77,035)

CCD Statistical Modeling for the Chemical Companion (PI: Higgins, Melinda)

(Georgia Tech Research Institute, 25 %, PI, 2011-06-20 to 2011-10-30, total costs \$14,621)

The Kenya Health Workforce Project (PI: Rogers, Martha)

(Assoc. of School of Public Health, S3800-26/28, 5 %, Biostatistician, 2002-09-28 to 2011-09-27, total costs \$93,1000)

Improving Self Management and Outcomes in HF Patients with Diabetes (PI: Dunbar, Sandra)

(NIH/NINR, 1R21NR011204, 2.5 %, Biostatistician, 2009-09-01 to 2011-08-31, total costs \$426,250)

An Audio Music Self Management Adherence Program (PI: Holstad, Marcia)

(NIH, 5R21NR01086202, 2.5 %, Biostatistician, 2008-04-11 to 2011-06-30, total costs \$425,938)

Prevent and Reduce Adverse Health Effects of Pesticides on Indigenous Farmworkers (PI: McCauley, Linda)

(Oregon Law Center/NIH Subcontract, 1R24MD002798, 7 %, Biostatistician, 2009-04-01 to 2011-03-31, total costs \$96,598)

The Emory Alzheimer's Disease Center (PI: Levey, Allen)

(NIH/NIA, 50AG025688, 5 %, Biostatistician, 2005-06-01 to 2010-04-30, total costs \$1,752,141)

A Family Partnership Intervention for Heart Failure (PI: Dunbar, Sandra)

(NIH/NINR, R01 NR008800, 5 %, Biostatistician, 2004-06-01 to 2009-11-30, total costs \$2,391,456)

Center for research on Symptoms, Symptom Interactions, and Health Outcomes (Pilot Award) (PI: Parker, Kathy)

(NIH/NINR, P20NR07798, 14 %, Biostatistician, 2008-07-01 to 2009-06-30, total costs \$987,194)

Integrated Statistical Framework for Assessing Symptom Clusters and Interactions (PI: Higgins, Melinda)

(Emory University 5-32895, 11 %, PI, 2008-05-13 to 2009-06-30, total costs \$5,000)

Educational, Training, and Program Grants Under Review

Women's Empowerment as a Results of the ECOLECTIVOS Traial (WERE) (PI: Hina Raheel)

(NIH, F31ES036126, 0 %, Mentor, 2024-07-01 to 2025-08-31, total costs \$215,304)

Midlife Vascular Risk Factors for Alzheimer's Disease in Persons with HFpEF (PI: Butts, B.)

(NIAG, K23AG076977, 0 %, Mentor, 2022-09-01 to 2027-08-31, total costs \$963,900)

The Contribution of Chronic Stress and Psychosocial Resources on Aging in Young and Early Middle Age Black Women (PI: Spikes, T.)

(NINR, K23NR02631, 0 %, Mentor, 2022-09-01 to 2025-08-31, total costs \$471,491)

Educational, Training, and Program Grants Funded

A Behavioral Intervention to Reduce Psychological Distress Symptoms among Black Gender Minority Women Experiencing Chronic Stigma (PI: Sherman, A.)

(NIH, K23NR020208, 0 %, Mentor, 2021-09-01 to 2024-08-31, total costs \$482,352)

Training in Interventions to Improve Outcomes in Chronic Conditions (PI: Dunbar, Sandra)

(NIH, T32NR012715-08, 0 %, Mentor, 2018-07-01 to 2023-06-30, total costs \$155,877)

Hypertensive Medication Adherence in Young African American Women (PI: Spikes, Telisa)

(NIH, F31NR017348, 0 %, Mentor, 2018-04-01 to 2020-03-31, total costs \$164,666)

Funded Studies @ Emory Healthcare (86 nurse-led Emory Magnet Research Projects)

Hospital Abbreviations: EUH (Emory University Hospital); EUHM (Emory University Hospital - Midtown); ESJH (Emory Saint Joseph Hospital); EJCH (Emory Johns Creek Hospital); EUOSH (Emory University Orthopedic and Spine Hospital); TEC (The Emory Clinic); EHC (Emory Healthcare); EDH (Emory Decatur Hospital)

| Date | Title | Hospital | Nursing PI |
|------|--|------------|--|
| 2023 | Workforce Civility | EHC | Mary Gullatte |
| 2023 | Nursing Research - EBP Reviews and Meetings | EHC | Mary Gullatte |
| 2023 | "The PLAN" data on nurse turnover - results review and support for AONL 2023 | EUOSH, EUH | Millie Sattler, Monique Bouvier |
| 2023 | Micro Practices for Stress Management in Healthcare Employees | EUH | Jodie Smith, Divya Gupta, Martha Boudreau, Aileen Zhao |
| 2023 | A Comparison of Thirst Management Strategies in Patients in the Intensive Care Unit | EUH | Kathleen Diatta, Roberta Kaplow |
| 2023 | Impact of 'Commit to Sit' on Patient Satisfaction/Communication with Nurses on an Inpatient Complex Medical Unit: A Prospective Interventional Study | EUH | Felcy Tauro, Roberta Kaplow |
| 2023 | Efficacy of ClearGuard™ HD Caps to Reduce the Incidence of CLABSIs: An Equivalency Study | EUH | Roberta Kaplow, Hallie Marino, Mylinh Yun, Jessica Tarabay |
| 2023 | Impact of Orthostatic Vital Sign Assessment on Preventing Patient Falls: A Retrospective Study | EUH | Roberta Kaplow, Christi Bell, Melanie Maloney |
| 2023 | Initial Efficacy and Feasibility of the Use of Weighted Blankets to Reduce Agitation among Ventilated ICU Patients | ESJH | Sampath Gayathri, Dinah Steele |
| 2023 | Alternative staffing, regarding the use of LPNs in acute care (pre-post analysis) | EUH | Lisa Reif; Roberta Kaplow; Greg Kingsley-Mota |
| 2023 | An International Comparison of Staff Perceptions of Shared Governance (EUH and UKE in Hamburg, Germany) | EUH | R. Kaplow |
| 2022 | COVID ICU - DEI Data Analysis | EUH | R. Kaplow |
| 2022 | Mixed Methods - LEP for Korean and Spanish patients | EUH | Adrienne Harris, Maria Fernandez |

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| 2022 | The Role of Rhythmic Breathing in Stress Reduction for Clinical Nurses | EJCH, EUHM | Vivienne Martin and Rajitha Bommakanti |
| 2022 | Infection Prevention and Control Coordinator: Sample Size Discussions | EUH | Mylinh Yun |
| 2022 | Emory Decatur Labor Support program | EDH | Rose Laure Horton |
| 2022 | Increasing Breastfeeding Exclusivity by Improving Skin-to-skin Contact of Newborns | EUHM | S. George |
| 2021 | Relationships among Select Comorbidities, Duration of Mechanical Ventilation, Treatment Modalities, Length of Hospital Stay, and Patient Survival in Patients with COVID-19 who Require Extracorporeal Membrane Oxygenation (ECMO) | EUH | R. Kaplow, C. Miller |
| 2021 | COVID-19 Unit Data – Survival, Organ Failure and Ventilation Characteristics and Comparisons | EUH | R. Kaplow |
| 2021 | Nurse and Patient Assessments of Discharge Readiness and Utilization of Post Discharge Health Services | EUOSH | D. Wittig-Wells |
| 2021 | Missed Nursing Care | EDH, EJCH | M. Baird, S. Slusher |
| 2021 | Meeting the Mental Health Needs of Emory Healthcare Workers in the COVID-19 Pandemic with the Community Resiliency Model | EHC, EDH | L. Grabbe; M. Baird |
| 2021 | Evaluating Emory COVID Vaccinations | EUH | R. Schneider; R. Amar |
| 2020 | Mortality and Morbidity Outcomes of COVID-19 Patients | EUH | R. Kaplow |
| 2020 | Exploration of Compassion Fatigue Among Healthcare Team Members | EHC | E. Gwibuka |
| 2020 | Impact of Quality of CPR on Patient Outcomes in In-hospital Cardiopulmonary Arrest | EUH | R. Kaplow |
| 2020 | Embrace Refugee Birth Support, a program of Friends of Refugees | Emory-Decatur | E. Mosley |
| 2020 | The impact of structured nurse-surgeon bedside rounds on percent | EHC | A. Harris |
| 2019 | Impact of the Pause on Quality Outcomes for ICU Clinicians | EHC | T. Cunningham |
| 2019 | Discharge Readiness after TKA | EUOSH | D. Wittig-Wells |
| 2019 | Resiliency Training for Front-Line Care Providers | EHC | L. Grabbe |
| 2019 | The impact of implementing a nurse communication competency protocol incorporating AIDET® on the communication with nurses HCAHPS scores. | EUH | G. Jackson |
| 2019 | Nurses' Perception of Telemedicine Adoption in the Intensive Care Unit Setting | EUH | R. Kaplow |

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| 2019 | Cardiopulmonary Resuscitation (CPR) Compliance Using Audio-Visual Feedback | EUH | M. Boudreau |
| 2019 | Global Health Dept of surgery SC database 2013 to 2019 | EHC | M. Gullatte |
| 2019 | EBP Data - Analyses | EUH | M. Gullatte |
| 2019 | OB Drill Team | EUHM | B. Green |
| 2018 | Impact of a Structured Nap on Fatigue for Registered Nurses Scheduled to Work Twelve Hour Night Shifts in an Orthopedic Hospital | EUOSH | D. Wittig-Wells |
| 2018 | The Effect of Participating in a Multi Site Quality Initiative on Nurses Self Efficacy recognizing post partum hemorrhage (PPH) | EUH | C. Wollenhaup |
| 2017 | An Exploratory Study on the Effectiveness of IPCE Learning on Practice (PEPO) | EUH, EUHM | M. Gullatte, S. Toney, T. Quest |
| 2017 | ICU Caring Attitudes The Impact of Patient and Family Advisors on Critical Care Nurses' Caring Attitudes | EUH | P. Cosper, R. Kaplow |
| 2017 | RCT of a Natural Food-based Fiber Solution To Prevent Constipation in Postoperative Spine Fusion Patients | EUOSH | D. Winterboer, P. Sapp |
| 2017 | Impact of a Smartphone App Reminder on Adherence Aspirin Prescribed as Anti-Thrombotic Therapy | EUOSH | D. Wittig-Wells |
| 2017 | Effect of learning preference on development of clinical judgment among associate degree nursing students in a virtual simulation environment | EUH | J. Bailey |
| 2017 | Community Resiliency Model Training to Improve the Mental Well-Being of Nurses | EUH | L. Grabbe |
| 2017 | Ambulatory Infusion Center Research Study | EUH | C. Mapp |
| 2017 | The Feasibility of Adapting a Critical Care Progressive Mobility Protocol for Acute Care | ESJH | M. Tennant |
| 2016 | Use of Quease-EASE to Ameliorate Post-Operative Nausea and Vomiting | EUH | P. Regan, A. Butler |
| 2016 | Assessing the Effect of Video-assisted Secondary Stroke Education during the Recovery Period in Patients on an Inpatient Neuroscience Unit: Stroke Education Retention - Video Effect (SERVE) | EUH | D. Hall, R. Kaplow |
| 2016 | Missed Nursing Care Improvement Strategies: Implications for Patient Safety | EUHM, ESJH, EJCH | A. Lewis, M. Baird |
| 2016 | Wellness and Well being for Hospital-Based Nurses Short Title: Wellness for Nurses | EUH, EUHM | L. Grabbe, A. DeGirolamo |
| 2016 | What is the effect of skin-to-skin on the duration of phototherapy required to reduce bilirubin levels in term newborns diagnosed with hyperbilirubinemia? | EUHM | S. George |

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| 2016 | Hypoglycemia in late preterm infants. | EUHM | S. George, I. Holmquistova |
| 2016 | EICU/Emergency Department Collaborative - eICU beds utilization and patient outcomes | EUHM | M. Anderson |
| 2016 | RCT of a Structured, DVD Educational Program for Newly Diagnosed Cancer Inpatients and Family Members | EUH | B. Bowden, R. Spinks |
| 2016 | Impact of Quality of CPR on Patient Outcomes in In-hospital Cardiopulmonary Arrest | EUH | P. Cospser |
| 2016 | The CNS as a Researcher: Review of Concepts | EUH | S. Shapiro, R. Kaplow |
| 2015 | CPOT (Critical Care Pain Observation Tool | EUH, EUHM | N. Peyatt |
| 2015 | Decreasing Bedside Monitor Nuisance Alarms in a Medical Critical Care Unit | EUHM | A. Brantley |
| 2015 | Randomized Clinical Trial of 24 % Oral Sucrose to Decrease Pain Associated with Peripheral Intravenous Catheter Insertion in Preterm and Term Newborns | EUHM | L. Cook |
| 2015 | Comparison of Early versus Usual Discharge Planning on Timely Discharge and Patient Satisfaction | EUHM | S. Gabriel |
| 2015 | Pain Management in Outpatient Surgical Patients: Scripting, Self-Reported Pain, and Patient Satisfaction | ESJH | K. Mullinax |
| 2015 | EUH Perioperative Services Research Collaborative | EUH | L. Bottoms |
| 2014 | A Randomized Controlled Trail of the Preliminary Impact of a Pre-Set Telephone Reminder on Medication Adherence in Adults Prescribed Aspirin as Anti-Thrombotic Therapy after Total Joint Replacement Surgery | EUOSH | D. Wittig-Wells |
| 2014 | Implementation of a Direct Phone Call Education Program to Increase Patients' Direct Calls To Caregivers for Needs / Requests Received | EJCH | G. Tepei, P. Victor |
| 2014 | Impact of a Pediatric Early Warning Score (PEWS) on Nurse Self-Efficacy in a Community Hospital | EJCH | J. Colborn |
| 2014 | What are the Effects on the Patients' Recovery of Eliminating Routine Nighttime Vital Signs on a Population of Stable Post-Op Patients? | EUOSH | D. Wittig-Wells |
| 2013 | Comparison of routes for temperature monitoring in oncology patients | EUH | D. Gates |
| 2013 | An experimental design study of the effect of a cool washcloth plus peppermint essential oil (Mentha piperita) versus a cool washcloth alone on the intensity of nausea response in patients | TEC | C. Mapp |

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| | receiving chemotherapy in the outpatient setting (POCW) | | |
| 2013 | Impact of a Focused Approach for Discharge Teaching regarding the use of Aspirin as Anticoagulant after Joint Replacement Surgery | EUOSH | D. Wittig-Wells |
| 2013 | Relationship between amount of post-op ambulation and return of bowel function in patients undergoing major abdominal surgery. | EUH | P. Swindall |
| 2013 | Use of Chlorhexidine for the Prevention of Catheter Associated Urinary Tract | EUH | M. Tennant |
| 2013 | Cryotherapy as a Nonpharmacologic Intervention for Pain Management After Total Knee Replacement | EUOSH | I. Johnson, D. Wittig-Wells |
| 2013 | Pilot Test of Extended Wear Carrier for Liquid Deodorants Used in an Ostomy Pouch | EUH | S. Shapiro |
| 2013 | Symptom Intensity and Satisfaction with Symptom Management in Hematopoietic Stem Cell Transplant Patients | EUH | A. Fels |
| 2012 | Does structured education improve knowledge of fluid restriction management for patients in CCU? | EUH | M. Boudreau |
| 2012 | Improving patient education for newly diagnosed lymphoma and acute leukemia inpatients | EUH | C. Day |
| 2012 | Hemodynamic monitoring: A Comparison of Parameters in Code MET in Acute Care Hospital | EUH | M. Still, S. Shapiro |
| 2012 | The Relationship between Non-surgical Pain and Activity in Patients undergoing a Total Knee Arthroplasty | EUOSH | D. Wittig-Wells |
| 2011 | Patients' Experiences of Pain in Total Knee Arthroplasty | EUOSH | D. Wittig-Wells |
| 2011 | Ventilator Assisted Pneumonia (VAP) Rates | EUHM | S. Shapiro |
| 2011 | Heal Well - Lighting Designs | EUH | S. Shapiro |
| 2011 | PCORI - Developing a measure of patient engagement at the time of hospital discharge | EUH | S. Shapiro |
| 2010 | Re-warming Newborn after First Bath: A Non-Randomized Clinical Trial | EUHM | S. George |
| 2010 | The Impact of Brief Swedish Massage on Quality and Quantity of Sleep in Post-Stroke Acute Rehabilitation Patients | EUH | D. McCune |
| 2010 | Evidence-Based Management: Leveraging Float Pool Data to Manage Short and Long Term Unit Staffing | EUH | S. Shapiro |

Funded Contracts [38 contracts as Program Manager, PI and co-PI = \$17,069,870.52]

(Department of Defense (DOD) and Related Contracts @ Georgia Tech 1996-2011)

GRR&GRT (Radios) Sustainability (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS-04F-N0010 (\$46.75M Ceiling) [August 2003 - July 2008]; TO: 4TEZ21076812
(co-PI, \$4,049,038.46, 2006-12-01 to 2009-05-31)

MECOC 2008 work (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS-04F-N0010 (\$46.75M Ceiling) [August 2003 - July 2008]; TO: 4QAZ21086801
(co-PI, \$192,308, 2008-01-01 to 2008-12-31)

DEVELOPMENT OF MICROFLUIDIC ASSAY FOR DETERMINATION OF PROTEIN TOXINS (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS-04F-N0010 (\$46.75M Ceiling) [August 2003 - July 2008]; TO: 4TEZ21077001
(co-PI, \$125,572, 2007-08-08 to 2008-08-07)

MECOC 2007 work (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS-04F-N0010 (\$46.75M Ceiling) [August 2003 - July 2008]; TO: 4TEZ21076801
(co-PI, \$192,307.69, 2007-01-01 to 2007-12-31)

UAV Technical Support to USAID and GA ARNG (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS-04F-N0010 (\$46.75M Ceiling) [August 2003 - July 2008]; TO: 4TEZ21066809
(co-PI, \$49,572.73, 2007-02-09 to 2007-10-08)

NGB-CD Tech Cons Program Coordination (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling) [August 2002 - July 2007]; TO: 4TEO21037017
(PI, \$154,110.58, 2003-03-11 to 2007-07-31)

GRR&GRT (Radios) Sustainability (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS-04F-N0010 (\$46.75M Ceiling) [August 2003 - July 2008]; TO: 4TEO21056802
(co-PI, \$873,787.41, 2005-04-01 to 2007-04-30)

MECOC FY06 Follow-on (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS-04F-N0010 (\$46.75M Ceiling) [August 2003 - July 2008]; TO: 4TEZ21066801
(co-PI, \$192,307.69, 2006-01-01 to 2006-12-31)

Airborne Video and Communication Enhancements Teledyne (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS-04F-N0010 (\$46.75M Ceiling) [August 2003 - July 2008]; TO: 4TEO21056803

(PI, \$271,844.66, 2004-11-17 to 2006-11-16)

NGB-CD Internal Web Management System Developments (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21057037
(co-PI, \$192,307.69, 2004-10-25 to 2006-10-24)

NGB SAMS Software Replacement and Development (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21057039
(co-PI, \$96,153.85, 2005-03-01 to 2006-08-31)

C-130 follow-on (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21057038
(PI, \$584,142.35, 2004-11-17 to 2006-05-16)

National Guard Bureau (NGB) - Counterdrug (CD) Technology Consortium Program Coordination: 2004-2005 (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21A47017
(PI, \$260,800, 2004-04-01 to 2006-03-31)

FalconView Environmental Assessment Tool (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS-04F-N0010 (\$46.75M Ceiling) [August 2003 - July 2008]; TO: 4TEO21056804
(co-PI, \$72,115, 2004-10-01 to 2006-03-31)

Modeling and Simulation Requirements for AFAMS (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS-04F-N0010 (\$46.75M Ceiling) [August 2003 - July 2008]; TO: 4TEO21056806
(co-PI, \$48,076.92, 2005-04-01 to 2006-03-31)

DSS National Implementation:2004-2005 (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21047019
(PI, \$768,000, 2004-04-01 to 2006-02-28)

Contract Support of the Condition Based Maintenance (CBM) Program - Application to UH-60A (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS-04F-N0010 (\$46.75M Ceiling) [August 2003 - July 2008]; TO: 4TEO21056807
(co-PI, \$84,944, 2005-06-01 to 2005-11-30)

MECOF FY05 Follow-on (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS-04F-N0010 (\$46.75M Ceiling) [August 2003 - July 2008]; TO: 4TEO21056801
(co-PI, \$151,442.31, 2004-11-09 to 2005-11-08)

NGB Tech Consortium Program Coordination (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS-04F-N0010 (\$46.75M Ceiling) [August 2003 - July 2008]; TO: 4TEO21046800
(PI, \$51,350, 2003-11-01 to 2005-10-31)

GTVGIS/DMS Integration:2004-2005 (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21047012
(PI, \$425,000, 2004-04-01 to 2005-09-30)

Space Based Radar - Ended Early Gov't Convenience (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS-04F-N0010 (\$46.75M Ceiling) [August 2003 - July 2008]; TO: 4TEO21056805
(PI, \$104,365.20, 2004-12-03 to 2005-07-29)

Std C-130 Pallet: 2004-2005 (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21047009
(PI, \$585,000, 2004-04-01 to 2005-06-30)

Mobility Electronic Combat Officers Course (MECOC) (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS-04F-N0010 (\$46.75M Ceiling) [August 2003 - July 2008]; TO: 4TEO21046801
(co-PI, \$182,317.46, 2003-10-29 to 2005-04-29)

Web?IT Support and Development - NGB-CD websites and DMS (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21047028
(co-PI, \$202,943, 2003-12-03 to 2005-02-04)

GA DOQQs – Part 2 (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21037025
(PI, \$262,072.93, 2003-08-25 to 2004-12-17)

Marijuana Remote Sensing Plan (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21037023
(PI, \$192,000, 2003-03-15 to 2004-09-30)

V-22 OT&E for ISRFID and Enhanced Development for ISRFID (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21037027
(co-PI, \$92,233, 2003-09-09 to 2004-09-08)

Georgia Tech Virtual Geographic Information System (GTVGIS)/Digital Mapping Server (DMS) Integration (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21037012
(PI, \$437,355, 2003-04-01 to 2004-06-30)

Decision Support System (DSS) National Implementation (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21037019
(PI, \$642,848, 2003-03-17 to 2004-06-30)

Requirements Analysis and Tech Assessment for Covert Tag (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21037026
(co-PI, \$631,39.78, 2003-08-25 to 2004-06-01)

Standardized C-130 Pallet (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21037009
(PI, \$385,414.75, 2003-04-01 to 2004-04-21)

UAV Integrated Data Support (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21037024
(co-PI, \$96,000, 2003-06-03 to 2004-03-31)

COUNTERDRUG GEOGRAPHICAL REGIONAL ASSESSMENT SENSOR SYSTEM (CD-GRASS) (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS00T99AJD0015 (\$9.7M Ceiling) [October 1998 - October 2003]; TO: T0099AJ0059
(PI, \$4,354,000.06, 1998-11-13 to 2003-12-31)

GA Digital Ortho Quarter Quads (DOQQs) – Part 1 (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21037005
(PI, \$100,000, 2002-10-14 to 2003-09-30)

RFID and Sensor Array (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21037022
(co-PI, \$65,000, 2003-02-01 to 2003-08-31)

Engine Asset Contractor Logistics Support Study (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS04T02BFD0031 (\$46.75M Ceiling)
[August 2002 - July 2007]; TO: 4TEO21037018
(co-PI, \$250,000, 2003-02-15 to 2003-08-15)

C-26 KS-87 CAMERA UPGRADE STUDY (Program Manager: Higgins, Melinda)

BOA: GSA (General Services Administration) Contract GS00T99AJD0015 (\$9.7M Ceiling) [October 1998 - October 2003]; TO: T0099AJ3421

(PI, \$200,000.00, 1999-07-30 to 2000-03-31)

MULTI-MODALITY IMAGE FUSION STUDY (Program Manager: Higgins, Melinda)

BOA: Eastman Kodak Direct Contract; TO: 99-8096-33777

(PI, \$20,000, 1999-08-01 to 1999-08-30)

Scholarship: Publications

(*h-index: Web of Science 26; SCOPUS 28; Europe PMC 21; Google Scholar: 38*
ORCID: 0000-0001-6579-5885; ResearcherID: B-6459-2013; Scopus Author ID: 35186267100)

Original Articles in Peer-Reviewed Journals (154 articles, +9)

(* next to data based publications, + next to students and postdoc trainees)

1. *+Alexander, K., Cave, N., Oliver, S., Bennett, S., **Higgins, M.**, Hepburn, K., Clevenger, C., & Epps, F. (2024). Caregiving While Black: A novel, online culturally tailored psychoeducation course for Black dementia caregivers. In *The Gerontologist*. Oxford University Press (OUP). <https://doi.org/10.1093/geront/gnae009>; PMID: 38330399
2. *Song, M.-K., **Higgins, M. K.**, Ward, S. E., +Lee, H., +Noorani, N., & Happ, M. B. (2024). Measures of Patient and Surrogate Preparedness for End-of-Life Decision-Making. In *Journal of Pain and Symptom Management*. Elsevier BV. <https://doi.org/10.1016/j.jpainsymman.2024.02.005>; PMID: 38355069
3. *Brewster, G., **Higgins, M.**, McPhillips, M. V., Bonds Johnson, K., Epps, F., Yeager, K., Bliwise, D. L., & Hepburn, K. (2023). The Effect of Tele-Savvy on Sleep Quality and Insomnia in Caregivers of Persons Living with Dementia. In *Clinical Interventions in Aging: Vol. Volume 18* (pp. 2117–2127). Informa UK Limited. <https://doi.org/10.2147/cia.s425741>; PMID: 38111602; PMCID: PMC10726954
4. *Davis, E., Dunbar, S., **Higgins, M.**, Wood, K., Ferranti, E., Morris, A., & Butts, B. (2023). Heart failure symptom burden, dietary intake, and inflammation: An integrative review of the literature. In *Journal of Integrative Nursing* (Vol. 5, Issue 2, p. 81). Medknow. https://doi.org/10.4103/jin.jin_26_23; PMID: 37727310; PMCID: PMC10508190
5. *+Gustafson, C. M., **Higgins, M.**, Wood, K. A., & Song, M.-K. (2023). Place of Death for Young Adults With Chronic Illness. In *Nursing Research* (Vol. 72, Issue 6, pp. 447–455). Ovid Technologies (Wolters Kluwer Health). <https://doi.org/10.1097/nnr.0000000000000681>; PMID: 37440265
6. *+Kassa, R., Yang, I., Woldetsadik, E., Girma, E., **Higgins, M.**, Dejene, T., & Wells, J. (2023). Survival of women with cervical cancer in East Africa: a systematic review and meta-analysis. In *Journal of Obstetrics and Gynaecology* (Vol. 43, Issue 2). Informa UK Limited. <https://doi.org/10.1080/01443615.2023.2253308>; PMID: 37776893
7. *Lin, Y., Porter, L. S., Chee, W., Alese, O. B., Curseen, K. A., **Higgins, M. K.**, Northouse, L., & Xiao, C. (2023). A Web-Based Dyadic Intervention to Manage Psychoneurological Symptoms for Patients With Colorectal Cancer and Their Caregivers: Protocol for a Mixed Methods Study. In *JMIR Research Protocols* (Vol. 12, p. e48499). JMIR Publications Inc. <https://doi.org/10.2196/48499>; PMID: 37379055 PMCID: PMC10365620
8. *Zaccari, B., **Higgins, M.**, Haywood, T. N., Patel, M., Emerson, D., Hubbard, K., Loftis, J. M., & Kelly, U. A. (2023). Yoga vs Cognitive Processing Therapy for Military Sexual Trauma–Related Posttraumatic Stress Disorder. In *JAMA Network Open* (Vol. 6, Issue 12, p. e2344862). American Medical Association (AMA). <https://doi.org/10.1001/jamanetworkopen.2023.44862>; PMID: 38064219 PMCID: PMC10709771
9. *Phillips, V., Quest, T. E., **Higgins, M.**, Marconi, V. C., Balthazar, M. S., & Holstad, M. (2022). A Cost-Effective Analysis of Motivational Interviewing with Palliative Care Versus Usual Care:

Results from the Living Well Project. In *AIDS and Behavior* (Vol. 27, Issue 4, pp. 1259–1268). Springer Science and Business Media LLC. <https://doi.org/10.1007/s10461-022-03862-8>; PMID: 36334215 PMCID: PMC10832615

10. *Carlson, N. S., Carlson, M. S., Erickson, E. N., **Higgins, M.**, +Britt, A. J., & Amore, A. D. (2023). Disparities by race/ethnicity in unplanned cesarean birth among healthy nulliparas: a secondary analysis of the nuMoM2b dataset. In *BMC Pregnancy and Childbirth* (Vol. 23, Issue 1). Springer Science and Business Media LLC. <https://doi.org/10.1186/s12884-023-05667-6>. PMID: 37173616; PMCID: PMC10176719.
11. *+Bonds Johnson, K., **Higgins, M.**, Epps, F., Brewster, G. S., Alexander, K., & Hepburn, K. (2023). Tele-Savvy Outcomes of Non-Hispanic Black American and White Caregivers. In J. E. Gaugler (Ed.), *The Gerontologist*. Oxford University Press (OUP). <https://doi.org/10.1093/geront/gnad044>. PMID: 37067896.
12. *Kovacs-Balint, Z. A., Raper, J., Richardson, R., Gopakumar, A., Kettimuthu, K. P., **Higgins, M.**, Feczko, E., Earl, E., Ethun, K. F., Li, L., Styner, M., Fair, D., Bachevalier, J., & Sanchez, M. M. (2023). The role of puberty on physical and brain development: A longitudinal study in male Rhesus Macaques. In *Developmental Cognitive Neuroscience* (Vol. 60, p. 101237). Elsevier BV. <https://doi.org/10.1016/j.dcn.2023.101237>. PMID: 37031512; PMCID: PMC10114189.
13. *Sherman, A. D. F., **Higgins, M. K.**, +Balthazar, M. S., Hill, M., Klepper, M., Schneider, J. S., Adams, D., Radix, A., Mayer, K. H., Cooney, E. E., Poteat, T. C., Wirtz, A. L., Reisner, S. L., Reisner, S., Wirtz, A., Althoff, K., Beyrer, C., Case, J., ... Cooney, E. (2023). Stigma, social and structural vulnerability, and mental health among transgender women: A partial least square path modeling analysis. In *Journal of Nursing Scholarship*. Wiley. <https://doi.org/10.1111/jnu.12906>
14. *Phillips, V., Quest, T. E., **Higgins, M.**, Marconi, V. C., +Balthazar, M. S., & Holstad, M. (2022). A Cost-Effective Analysis of Motivational Interviewing with Palliative Care Versus Usual Care: Results from the Living Well Project. In *AIDS and Behavior* (Vol. 27, Issue 4, pp. 1259–1268). Springer Science and Business Media LLC. <https://doi.org/10.1007/s10461-022-03862-8>. PMID: 36334215.
15. *Duva, I. M., **Higgins, M. K.**, Baird, M., Lawson, D., +Murphy, J. R., & Grabbe, L. (2022). Practical resiliency training for healthcare workers during COVID-19: results from a randomised controlled trial testing the Community Resiliency Model for well-being support. In *BMJ Open Quality* (Vol. 11, Issue 4, p. e002011). BMJ. <https://doi.org/10.1136/bmjopen-2022-002011>. PMID: 36418068; PMCID: PMC9684284.
16. *McCormack, K. M., Howell, B. R., **Higgins, M.**, Bramlett, S., Guzman, D., Morin, E. L., Villongco, C., Liu, Y., Meyer, J., & Sanchez, M. M. (2022). The developmental consequences of early adverse care on infant macaques: A cross-fostering study. In *Psychoneuroendocrinology* (Vol. 146, p. 105947). Elsevier BV. <https://doi.org/10.1016/j.psyneuen.2022.105947>. PMID: 36242820.
17. *Zaccari, B., Sherman, A. D. F., **Higgins, M.**, & Ann Kelly, U. (2022). Trauma Center Trauma-Sensitive Yoga Versus Cognitive Processing Therapy for Women Veterans With PTSD Who Experienced Military Sexual Trauma: A Feasibility Study. In *Journal of the American Psychiatric Nurses Association* (p. 107839032211087). SAGE Publications. <https://doi.org/10.1177/10783903221108765>. PMID: 35833676; PMCID: PMC9839891.

18. *Zaccari, B., Sherman, A. D. F., +Febres-Cordero, S., **Higgins, M.**, & Kelly, U. (2022). Findings from a pilot study of Trauma Center Trauma-Sensitive Yoga versus cognitive processing therapy for PTSD related to military sexual trauma among women Veterans. In *Complementary Therapies in Medicine* (Vol. 70, p. 102850). Elsevier BV. <https://doi.org/10.1016/j.ctim.2022.102850>. PMID: 35820575; PMCID: PMC9704511.
19. *Aga, F., Dunbar, S. B., Kebede, T., Guteta, S., **Higgins, M. K.**, & Gary, R. A. (2022). Foot self-care behaviour in type 2 diabetes adults with and without comorbid heart failure. In *Nursing Open* (Vol. 9, Issue 5, pp. 2473–2485). Wiley. <https://doi.org/10.1002/nop2.1265>. PMID: 35678585; PMCID: PMC9374405.
20. *+Davis, E., **Higgins, M. K.**, Wood, K. A., Cimiotti, J., Gary, R. A., & Dunbar, S. B. (2022). Sex Differences in Cardiac Risk Factors in Young Adults. In *Journal of Cardiovascular Nursing* (Vol. 38, Issue 2, pp. 168–178). Ovid Technologies (Wolters Kluwer Health). <https://doi.org/10.1097/jcn.0000000000000888>. PMID: 35170485; PMCID: PMC9375778.
21. *Bekele, D. M., Goshu, D. Y., Yalew, A. W., **Higgins, M. K.**, & Gary, R. A. (2022). Low Subjective Cardiovascular Disease Risk Perceptions among Hypertensive Patients in Addis Ababa, Ethiopia. In *Integrated Blood Pressure Control: Vol. Volume 15* (pp. 81–96). Informa UK Limited. <https://doi.org/10.2147/ibpc.s370838>. PMID: 35959381; PMCID: PMC9363046
22. *Wood, K. A., **Higgins, M. K.**, & Barnes, A. H. (2022). Self-reported Sleep Quality Before and After Atrial Fibrillation Ablation. In *Journal of Cardiovascular Nursing* (Vol. 38, Issue 2, pp. E78–E86). Ovid Technologies (Wolters Kluwer Health). <https://doi.org/10.1097/jcn.0000000000000909>. PMID: 35389925; PMCID: PMC9532466.
23. *Harris A, Lane R, **Higgins M.** Improving perceptions of communication, collaboration, and teamwork using structured nurse-surgeon bedside rounds. *Nursing*. 2022 Feb 1;52(2):56-59. doi: 10.1097/01.NURSE.0000806180.71822.99. PMID: 35085199.
24. *+Kovaleva, M., Nocera, J. R., Hepburn, K., **Higgins, M.**, Nash, R., Epps, F., Brewster, G., Bilsborough, E., Blumling, A. A., & Griffiths, P. C. (2022). Attention control in a trial of an online psychoeducational intervention for caregivers. In *Research in Nursing & Health* (Vol. 45, Issue 3, pp. 337–349). Wiley. <https://doi.org/10.1002/nur.22208>. PMID: 35080016; PMCID: PMC9064916.
25. *+Kovaleva, M. A., **Higgins, M.**, Dietrich, M. S., Jennings, B. M., Song, M.-K., Clevenger, C. K., Griffiths, P. C., & Hepburn, K. (2022). Characteristics associated with neuropsychiatric symptoms in persons living with dementia and caregiver distress and diminished well-being. In *Journal of the American Association of Nurse Practitioners* (Vol. 34, Issue 4, pp. 656–665). Ovid Technologies (Wolters Kluwer Health). <https://doi.org/10.1097/jxx.0000000000000681>. PMID: 35025838.
26. *Ko, Y.-A., Chen, Z., Liu, C., Hu, Y., Quyyumi, A. A., Waller, L. A., **Higgins, M.**, Ziegler, T. R., Brigham, K. L., & Martin, G. S. (2021). Developing a synthetic control group using electronic health records: Application to a single-arm lifestyle intervention study. In *Preventive Medicine Reports* (Vol. 24, p. 101572). Elsevier BV. <https://doi.org/10.1016/j.pmedr.2021.101572> PMID: 34976636; PMCID: PMC8683890.
27. *Frediani, J. K., Li, J., Bienvenida, A., **Higgins, M. K.**, & Lobelo, F. (2021). Metabolic Changes After a 24-Week Soccer-Based Adaptation of the Diabetes Prevention Program in Hispanic Males: A

One-Arm Pilot Clinical Trial. In *Frontiers in Sports and Active Living* (Vol. 3). Frontiers Media SA. <https://doi.org/10.3389/fspor.2021.757815>. PMID: 34870194; PMCID: PMC8632771.

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- *Pinto, M.; Abbot, K.; DiClemente, R.; +Greenblatt, A.; **Higgins, M.**; Negi, L.; Kaplin, A. Cognitively-based compassion training (CBCT): promising intervention to improve depressive symptoms, attention, executive function, and skills for cognitive resilience. *Applied Nursing Research (submitted July 23, 2018, manuscript tracking # ANR-2018-24-R1)*.
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1. Asbell, L. C. W., & **Higgins, M. K.** (uncited contributor). (2003). CHAPTER 15: National guard bureau – counterdrug geographic information systems program supporting counterdrug law enforcement. In *GIS in law enforcement: Implementation issues and case studies* (pp. 211–227). New York: Taylor & Francis (editors: Mark Leipnik, Donald Albert).

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1. *Davis, E., Dunbar, S. B., **Higgins, M.**, Ferranti, E., & Butts, B. (2023). Abstract 15791: Higher Diet Quality Associates With Lower Inflammation in Black Adults With Heart Failure. In *Circulation* (Vol. 148, Issue Suppl_1). Ovid Technologies (Wolters Kluwer Health). https://doi.org/10.1161/circ.148.suppl_1.15791
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77. *Gary, R., Dunbar, S., Musselman, D., Cress, E., & **Higgins, M.** (2008). Use of the symptom interactional framework to examine the multidimensional domains of fatigue and depression in heart failure patients. *Journal of Cardiac Failure*, 14(6), S91–S91. <https://doi.org/10.1016/j.cardfail.2008.06.248>
78. Walthall, C., Daughtry, C., Pachepsky, L., Erbe, E., Lydon, J., **Higgins, M.**, Vanderbilt, V., & Bobbe, T. (2006). Detection of illegal cannabis cultivation using remote sensing. *2006 IEEE International Geoscience and Remote Sensing Symposium, Vols 1-8*, 2281–+. <https://doi.org/10.1109/IGARSS.2006.590>
79. Haran, T., **Higgins, M.**, & Thomas, M. (2004). Handheld thermal imaging for law enforcement and counterdrug applications. In E. Carapezza (Ed.), *SENSORS, AND COMMAND, CONTROL, COMMUNICATIONS, AND INTELLIGENCE(C31) TECHNOLOGIES FOR HOMELAND SECURITY AND HOMELAND DEFENSE III, PTS 1 AND 2* (Vol. 5403, pp. 831–841). Georgia Tech Res Inst, Atlanta, GA 30332 USA: SPIE-INT SOC OPTICAL ENGINEERING. <https://doi.org/10.1117/12.541705>

Instructional Booklet

1. **Higgins, M. K.** (2018). *Center for Health Discovery and Wellbeing (CHDWB) Database - Codebook*. Emory University, Atlanta, GA. (online CHDWB Codebook <https://melindahiggins2000.github.io/CHDWBCodebook/>; CHDWB-Predictive Health Institute Database <http://predictivehealth.emory.edu/research/resources.html>)

Educational Software, Workshops and Websites Authored

| Title | URL | Created |
|--|---|---------------|
| 1. Week 1 Lecture 02: Intro to R, RStudio and Rmarkdown; | https://melindahiggins2000.github.io/IBS_519_Fall2023_mhiggins/ | Fall 2023 |
| 2. Week 3 Lecture 06: Data Exploration and Wrangling (with dplyr); | | |
| 3. Week 4 Lecture 08: Reproducible Research and RMarkdown – for IBS 519 | | |
| 4. Working with Text in R - 2 skills 4 exercises; Text-to-Columns; Search Across Columns; Parse FREE OPEN Text – for the Advancing Collaborative Biostatistics at Emory (ACBE) Meeting | https://melindahiggins2000.github.io/Emory_ACBE_March2023_TextParsing/ | March 2023 |
| 5. Emory R Workshop: November 11, 2022 – for the Rollins COVID-19 Epidemiology Fellowship R Training | https://melindahiggins2000.github.io/Emory_RWorkshop_11Nov2022/ | November 2022 |

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|--|---|----------------------------|
| 6. Emory R Workshop: October 26, 2022 – for the R Workshop for Emory Rollins Mobile Health Collaborative | https://melindahiggins2000.github.io/Emory_RWorkshop_26Oct2022/ | October 2022 |
| 7. Week 1 Lecture 02: Intro to R, RStudio and Rmarkdown; | https://melindahiggins2000.github.io/IBS_519_Fall2022_mhiggins/ | Fall 2022 |
| 8. Week 3 Lecture 06: Data Exploration and Wrangling (with dplyr); | | |
| 9. Week 4 Lecture 08: Reproducible Research and RMarkdown – for IBS 519 | | |
| 10. Power Lectures and G*Power Exercises | https://melindahiggins2000.github.io/MHiggins_PowerLecture_GPowerExercises/ | January 2022 |
| 11. Datacamp Interactive Course: R For SAS Users | https://learn.datacamp.com/courses/r-for-sas-users | Summer 2019 (launched) |
| 12. Coursera International Course: Reproducible Templates for Analysis and Dissemination | https://www.coursera.org/learn/reproducible-templates-analysis | January 2018 (launched) |
| 13. Course Website: N736 Quantitative Analysis of Clinical Research Data | https://melindahiggins2000.github.io/N736Fall2017/ | August 2017 |
| 14. Course Website: N741 Big Data Analytics for Healthcare | https://melindahiggins2000.github.io/N741bigdata/ | January 2017 |
| 15. GITHUB Organization for N741: N741 Big Data Analytics for Healthcare | https://github.com/EmoryN741 | January 2017 |

Educational Videos Created

| Title | URL | Created |
|--|---|----------------|
| 16. Summer 2018 R Workshop 03: R and RStudio Basics | https://youtu.be/NRCfTM5ghTI | Aug 2018 |
| 17. Summer 2018 R Workshop 02: R and RStudio Basics | https://youtu.be/G9O6gWrpmjg | July 2018 |
| 18. Summer 2018 R Workshop 01: R and RStudio Basics | https://youtu.be/ZeS5cFUTAYc | June 2018 |
| 19. SNRS 2018 R Workshop | https://youtu.be/X7C_M1Lbgn4 | March 2018 |
| 20. N741 Course Videos on R and RStudio (5 part series) | https://www.youtube.com/playlist?list=PLUDpSUA5mvSzL7XwtIzjxeZpP9aLMk4C6 | January 2017 |
| 21. Fall 2016 R Workshops (5 part series) | https://www.youtube.com/playlist?list=PLUDpSUA5mvSwWh_0o5UDb_u8iLDZ4Nfq7 | September 2016 |
| 22. Spring 2016: R Workshop 03 (3 part series) | https://www.youtube.com/playlist?list=PLUDpSUA5mvSxarf_wHZbKl6OycvSff3O3 | March 2016 |
| 23. Spring 2016: R Workshop 02 (4 part series) | https://www.youtube.com/playlist?list=PLUDpSUA5mvSznW42U5-hBgX734qTjduhE | February 2016 |

24. Spring 2016: R Workshop 01 (5 part series) https://www.youtube.com/playlist?list=PLUDpSUA5mvSwK0QnaKsxm_AjisRPVeypp February 2016

Scholarship: Presentations (139 presentations: 80 International/National; 59 Local)

Note: First author listed was the presenter

International Presentations

1. **Higgins, Melinda** (2023, Nov), Windy Alonso, Brittany Butts, Lucinda J Graven, Carolyn M Reilly, Myra S Schmaderer, Leeza Struwe, Sandra B Dunbar and Bunny J Pozehl; Oral Poster Presentation (Abstract 16663) "Psychometric Summary of the Heart Failure Symptom Survey" Presented at 2023 AHA Scientific Sessions; Philadelphia, PA, https://www.ahajournals.org/doi/10.1161/circ.148.suppl_1.16663
2. **Higgins, M. K.** (2021, Aug). Distinctive Statistical Considerations in Nursing Education and Research — Topic-Contributed Panel: ENAR, Section on Teaching of Statistics in the Health Sciences, Biometrics; Panel Presentation "Team Science: Tools and Technology" (JSM (Joint Statistics Meeting) 2021), Retrieved from <https://ww2.amstat.org/meetings/jsm/2021/onlineprogram/MainSearchResults.cfm>
3. **Higgins, M. K.** (2018, July 29). *Overcoming fears (my own) teaching reproducible research, big data and data mining in nursing and public health education*. Oral Presentation (#330503), Vancouver, British Columbia, Canada. Retrieved from <http://ww2.amstat.org/meetings/jsm/2018/index.cfm>
4. **Higgins, M. K.** (2016, June). *The power of rmarkdown and RStudio IDE: Lessons learned teaching r in public health and nursing*. Oral Presentation, Atlanta, GA. Retrieved from <https://math.gsu.edu/icsa/>
5. **Higgins, M. K.** (2014). *Closing the gap between applied research and statistics education*. Panel Session - Chair and Organizer, Boston, MA: Panel Session - Chair and Organizer. Retrieved from <https://ww2.amstat.org/meetings/jsm/2014/program.cfm#>
6. *Gary, R. A., Dunbar, S. B., **Higgins, M. K.**, Hepburn, K., Miller, A., Corwin, E., & Bauer-Wu, S. (2013, July). *Physical and psychosocial characteristics of family caregivers of persons with heart failure*. Oral Presentation, Prague, Czech Republic. Retrieved from <https://www.ghdonline.org/nursing/discussion/24th-international-nursing-research-congress-in-pr/>
7. **Higgins, M. K.** (2013). *Dealing with excess zeros and highly skewed distributions in nursing research*. Oral Presentation [Invited Speaker], Montreal, Canada. Retrieved from <https://ww2.amstat.org/meetings/jsm/2013/program.cfm>
8. *Darcy-Mahoney, A., Minter, B., **Higgins, M. K.**, & Burch, K. (2013). *Late prematurity and birth history in children with autism*. Oral Presentation, Donostia/San Sebastian, Spain. Retrieved from <https://insar.confex.com/imfar/2013/webprogram/start.html>
9. *Anderson, A., **Higgins, M. K.**, Ownby, R., & Waldrop-Valverde, D. (2012). *Short term changes in adherence and neurocognition among cocaine and heroin users with HIV infection*". Poster, Miami, FL: Poster. Retrieved from http://www.iapac.org/AdherenceConference/Adherence_2012.html

10. **Higgins, M. K.** (2012). *Teaching statistics to nursing students: Current approaches, topics to be aware of and challenges*. Oral Presentation [Invited Speaker], San Diego, CA. Retrieved from <http://ww2.amstat.org/meetings/jsm/2012/program.cfm>
11. Walthall, C. L., Daughtry, C. S. T., Vanderbilt, M., **Higgins, M. K.**, Bobbe, T., Lydon, J., & Kaul, M. (2003, July). *What do we know about spectral signatures of illegal cannabis cultivation?* Oral Presentation, San Diego, CA
12. **Higgins, M. K.**, Sivakumar, R., Faust, N., Breckenridge, J., & Thomas, Major Michael. (2002, July). *Digital mapping server implementation for national guard counterdrug programs*. Oral Presentation (Paper 742), San Diego, CA. Retrieved from <https://library.esri.com/docs/proc02/pap0742/p0742.htm>
13. Thomas, Michael, **Higgins, M.**, (2002). *National guard GIS and related technologies for counterdrug law enforcement*. Oral Presentation (Paper 752), San Diego, CA. Retrieved from <https://library.esri.com/docs/proc02/pap0752/p0752.htm>
14. **Higgins, M.** (2001). National guard counterdrug technology programs: Focused support to counterdrug law enforcement [invited speaker]. In *Proceedings: 2001 ONDCP international technology symposium : Counterdrug research and development : Technologies for the next decade, june 25-28, 2001, san diego, CA*. San Diego, CA: Executive Office of the President of the United States. Retrieved from <https://books.google.com/books?id=czRjtwEACAAJ>
15. ***Higgins, M. K.**, Doll, T., Faust, N., & Wasilewski, T. (2001). *Simultaneous visualization of spatial and spectral signatures of targets [invited speaker]*. Oral Presentation, Montreal, Canada. Retrieved from http://www.crm.umontreal.ca/fusion/prog_day2.shtml
16. ***Higgins, M. K.**, & Morgan, S. L. (1995, June). *Experimental design and multivariate data analysis for carbohydrate mixture and polymer analysis using pyrolysis/high-resolution gas chromatography/mass spectrometry*. Oral Presentation, Breckenridge, CO
17. *Xiang, Y., **Higgins, M. K.**, & Morgan, S. L. (1995). *Quantitation and identification of multiple components in contaminated samples using pattern recognition and principal component analysis*. Oral Presentation (Paper 1388), New Orleans, LA. Retrieved from <https://pubs.acs.org/doi/pdf/10.1021/cen-v072n049.p043>
18. *Morgan, S. L., & **Higgins, M.** (1995). *Three-mode principal component analysis of pyrolysis-gas chromatography/mass spectrometry data for oligosaccharides using a molecular mixture design*. Oral Presentation (Paper 889), New Orleans, LA. Retrieved from <https://pubs.acs.org/doi/pdf/10.1021/cen-v072n049.p043>
19. *Galipo, R., **Higgins, M. K.**, Aust, J. F., Morgan, S. L., & Myrick, M. L. (1994). *Curing of polymers studied by pyrolysis has chromatography / mass spectroscopy*. Poster (O24P), Chicago, IL. Retrieved from <https://pubs.acs.org/doi/abs/10.1021/ac00081a735?journalCode=ancham>
20. *Aust, J. F., **Higgins, M. K.**, Egan, W., Morgan, S. L., & Myrick, M. L. (1994). *Fiber optic FT-raman studies of a polyimide curing reaction*. Oral Presentation (Paper 1141), Chicago, IL. Retrieved from <https://pubs.acs.org/doi/abs/10.1021/ac00081a735?journalCode=ancham>
21. *Morgan, S. L., & **Higgins, M. K.** (1994). *Reduction of dimensionality concepts for spectroscopic and chromatographic data*. Oral Presentation (Paper 624), Chicago, IL. Retrieved from <https://pubs.acs.org/doi/abs/10.1021/ac00081a735?journalCode=ancham>

22. ***Higgins, M. K.**, Aust, J. F., Morgan, S. L., & Myrick, M. L. (1993). *Factor analysis of fiber-optic raman spectroscopy data from thermoset polymers during the curing process*. Oral Presentation (Paper 042), Atlanta, GA. Retrieved from <http://journals.sagepub.com/doi/abs/10.1255/nirn.173>
23. ***Denny, M. K.**, & Morgan, S. L. (1992). *Factor analysis of electron impact mass spectra for differentiation of isomeric alditol hexaacetates*. Oral Presentation (Paper 380), New Orleans, LA. Retrieved from <https://pubs.acs.org/doi/abs/10.1021/ac00027a716?journalCode=ancham>
24. ***Denny, M. K.**, Zhu, Z. T., Goode, S. R., & Morgan, S. L. (1991). *Determination of sugar composition of wood products by multivariate regression and factor analysis of UV spectra*. Poster (355P), Chicago, IL. Retrieved from <https://www.sciencedirect-com.proxy.library.emory.edu/science/article/pii/016599369185015J>

National Presentations

25. Hayat, M.; **Higgins, M.**; Kim, Myoung Jin; Pan, W.; Perkhounkova, Y.; Schwartz, T.; (2021, July). USCOTS (US Conference on Teaching Statistics): Th-14: Preparing nurses for the next pandemic: the role of statistics educators moving forward, Virtual online, Retrieved from: <https://www.causeweb.org/cause/uscots/uscots21/th-14-preparing-nurses-next-pandemic-role-statistics-educators-moving-forward>
26. **Higgins, M. K.** (2018). *Overcoming fears (my own) teaching reproducible research, big data and data mining*. Oral Presentation, eCOTS (Electronic Conference on Teaching Statistics) online virtual conference. Retrieved from <https://www.causeweb.org/cause/ecots/ecots18/breakouts/11>
27. ***Higgins, M. K.**, Reilly, C. M., Gary, R. A., Dunbar, S. B., +Butts, B., & Butler, J. (2017, April). *Characterizing quality of life responses and physical functioning improvements to an integrated self-care intervention for persons with co-morbid heart failure and diabetes*. Poster, Arlington, VA. Retrieved from https://professional.heart.org/professional/EducationMeetings/MeetingsLiveCME/QCOR/UCM_494366_QCOR-2017-Science-News-Archive.jsp
28. *Corwin, E., **Higgins, M. K.**, Hepburn, K., Gary, R. A., Miller, A., & Dunbar, S. B. (2016, September). *Assessment of stress and inflammatory biomarkers in family caregivers of heart failure and alzheimer's disease*. Oral Presentation, Washington, DC.
29. *Dunbar, S. B., **Higgins, M. K.**, Corwin, E., Hepburn, K., & Miller, A. (2016, September). *Caregiver stress - interventions to promote health and wellbeing*. Oral Presentation, Washington, DC.
30. *Gary, R. A., **Higgins, M. K.**, Corwin, E., Hepburn, K., & Dunbar, S. B. (2016, September). *Improvements in physical functioning, health status and reduced cardiovascular risk for caregivers of heart failure patients*. Oral Presentation, Washington, DC.
31. *Hepburn, K., **Higgins, M. K.**, +Kovaleva, M., Corwin, E., Gary, R., Miller, A., & Dunbar, S. B. (2016, September). *Improving perceived burden and health for caregivers of african american alzheimer's patients*. Oral Presentation, Washington, DC.
32. *Dunbar, S. B., Corwin, E., **Higgins, M. K.**, Gary, R. A., & Hepburn, K. (2016, September). *The effect of psychoeducational interventions for caregivers of persons with heart failure of alzheimer's disease on caregiver knowledge and self-efficacy*. Oral Presentation, Washington, DC.

33. ***Higgins, M. K.**, Dunbar, S. B., Corwin, E., & Gary, R. A. (2016, September). *Visualizing family caregiver profiles and phenotypes using network analysis techniques and graphs*. Oral Presentation, Washington, DC.
34. *Gary, R., Dunbar, S. B., +Butts, B., **Higgins, M. K.**, Corwin, E., Hepburn, K., & Miller, A. H. (2015, October 13). *Improving physical function and reducing cardiovascular disease risk among family caregivers of persons with heart failure*. Oral Presentation, Bethesda, MD.
35. *+McCabe, N., Book, W., Butler, J., **Higgins, M. K.**, Reilly, C. M., & Dunbar, S. B. (2015, November). *Relationship between self-care, functional health, and health resource use in adults with congenital heart defects*. Oral Presentation (Martha N. Hill New Investigator Finalist), Orlando, FL.
36. *Reilly, C. M., Esiashvili, N., Schreiber, E., & **Higgins, M. K.** (2015, November). *The relationship between radiation dose volume and adverse cardiovascular events in cancer survivors who received thoracic radiation*. Oral Presentation, Orlando, FL.
37. *Reilly, C. M., **Higgins, M. K.**, Gary, R. A., Butler, J., Smith, A., & Dunbar, S. B. (2014). *Cost effectiveness of an integrated self-care intervention for persons with heart failure and diabetes*. Oral Presentation, Washington, DC; Las Vegas, NV.
38. *Thomas, T., Strickland, O., DiClemente, R., & **Higgins, M. K.** (2014). *Increasing human papillomavirus (HPV) vaccination in boys: Reducing health disparities through advanced pediatric nursing practice*. Oral Presentation, Boston, MA. Retrieved from <http://community.napnap.org/annualconference2014/home/abouttheconference>
39. *Thomas, T., **Higgins, M. K.**, & Pinto, M. (2014). *Parental attitudes towards human papillomavirus (HPV) vaccination of boys: Quantitative and qualitative results identifying interventions points for the development of effective HPV vaccine interventions*. Oral Presentation, San Antonio, TX. Retrieved from <https://www.adolescenthealth.org/Meetings/Past-Meetings/2014-Annual-Meeting.aspx>
40. Fox, S. M., Clevenger, C. K., Abraham, C. A., & **Higgins, M. K.** (2013). *Gauging nursing students' knowledge and attitude toward quality improvement*. Oral Presentation.
41. *Thomas, T., Strickland, O., DiClemente, R., **Higgins, M. K.**, & +Stevens, D. Y. (2013). *Health disparities and human papillomavirus (HPV) vaccination: Research findings and implications for pediatric nurses in advanced practice*. Oral Presentation, Orlando, FL.
42. *+McCabe, N., **Higgins, M. K.**, & Reilly, C. M. (2013). *Six minute walk distance predicts event-free survival after acute heart failure hospitalization*. Oral Presentation (Rising Stars Scholar), Washington, DC.
43. Hayat, M., Eckardt, P., **Higgins, M. K.**, Kim, M., & Schmiede, S. (2013). *Teaching statistics to nursing students: An expert panel consensus*. Poster, Raleigh-Durham, NC. Retrieved from <https://www.causeweb.org/cause/uscots/uscots13/posters>
44. *Thomas, T., Strickland, O., DiClemente, R., & **Higgins, M. K.** (2012). *Is the HPV vaccine for adolescent boys who live in rural areas? Parents' knowledge, attitudes, beliefs, and intent to vaccinate their sons*. Oral Presentation, New Orleans, LA. Retrieved from <https://www.adolescenthealth.org/Meetings/Past-Meetings/2012-Annual-Meeting.aspx>

45. *+Ferranti, E., Dunbar, S. B., Reilly, C. M., Foster, J., McCullough, M., Narayan, K. M., Zeigler, T. R., & **Higgins, M. K.** (2012). *Perceived and actual cardio-metabolic risk among women with a recent history of gestational diabetes*. Oral Presentation, Washington, DC.
46. *+Ferranti, E., Dunbar, S. B., Reilly, C. M., Foster, J., McCullough, M., Narayan, K. M., Zeigler, T. R., & **Higgins, M. K.** (2012). *Perceived and actual cardio-metabolic risk among women with a recent history of gestational diabetes*. Oral Presentation, San Francisco, CA.
47. *Thomas, T., +Stephens, D., Strickland, O., DiClemente, R., & **Higgins, M. K.** (2012). *Rural health disparities and reduction of human papillomavirus (HPV) related cancers*. Oral Presentation, National Harbor, MD. Retrieved from https://www.nimhd.nih.gov/summit_site/
48. *Cha, E., **Higgins, M. K.**, Lobb, M. K., & Dunbar, S. B. (2011, August). *Education needs for improving self-care in heart failure patients with diabetes*. Oral Presentation, Las Vegas, NV.
49. *Thomas, T., Strickland, O., DiClemente, R., & **Higgins, M. K.** (2011). *Fathers, sons and the human papillomavirus (HPV) vaccine: Perceived vulnerability to HPV infection in boys ages 9 to 13*. Poster, Washington, DC. Retrieved from <https://www.ninr.nih.gov/aboutninr/history/25thsymposium/25thanniversaryhighlights>
50. *Cha, E., **Higgins, M. K.**, Reilly, C. M., & Dunbar, S. B. (2011). *Improving self-care in heart failure patients with diabetes*. Poster, Washington, DC.
51. *Thomas, T., Strickland, O., DiClemente, R., & **Higgins, M. K.** (2011). *Prevalence and correlates of human papillomavirus (HPV) vaccination in rural areas*. Oral Presentation, New Orleans, LA.
52. *+Ferranti, E., Butler, J., Culler, S., **Higgins, M. K.**, Gary, R., Reilly, C. M., Laszlo, M., Meadows, K., Moloney, M., & Dunbar, S. B. (2011). *Self-management of both heart failure and diabetes: Perspectives from patients and their family caregivers*. Poster, Washington, DC.
53. *Reilly, C. M., **Higgins, M. K.**, Smith, A., Culler, S., & Dunbar, S. B. (2011). *Stopping the tide: Outcomes from symptom and economic evaluation of fluid restriction in persons with heart failure (SEE-heart)*. Oral Presentation, Orlando, FL.
54. *Holstad, M., Ofotokun, I., Logwood, S., **Higgins, M. K.**, & Norris, S. (2010, November). *Evaluation of an audio-music program to promote ART adherence: A pilot study*. Oral Presentation.
55. *+Ferranti, E., +Dai, J., Zeigler, T. R., Brigham, K., Frediani, J., **Higgins, M. K.**, Reilly, C. M., & Dunbar, S. B. (2010). *Psychosocial correlates of diet quality in working adults*. Poster, Washington, DC.
56. *Reilly, C. M., Frediani, J., Clark, P., Gary, R. A., **Higgins, M. K.**, Smith, A., & Dunbar, S. B. (2009). *Quality and adequacy of dietary intake in a southern urban heart failure population*. Poster, Washington, DC.
57. *+Quinn, C., Dunbar, S. B., & **Higgins, M. K.** (2008, October). *Family dyadic symptom assessment congruence in heart failure and partner support style*. Oral Presentation, Washington, DC.
58. *+Quinn, C., Dunbar, S. B., & **Higgins, M. K.** (2008, October). *Family support factors and congruence of symptom assessment between HF patients and caregivers*. Poster, Washington, DC.

59. *Gary, R. A., Dunbar, S. B., Musselman, D. L., Cress, M. E., & **Higgins, M. K.** (2008, October). *The multidimensional domain of fatigue in patients with heart failure and depression*. Oral Presentation, Washington, DC.
60. ***Higgins, M. K.**, & Parker, K. (2008, October). *Visualization and multivariate statistical methods to model relationships across symptom cluster and polysomnographic realms*. Oral Presentation, Washington, DC: Oral Presentation.
61. **Higgins, M. K.**, Thomas, Major Michael, Faust, N., McCreedy, F., Sample, J., Shaw, K., & Thomas, R. Capt. (2004, April). *National guard digital mapping server portal: Embodying a 'one-stop' portal approach for total GIS needs [invited speaker]*. Oral Presentation, Boston, MA.
62. **Higgins, M. K.** (2002, September). *NGB-CD digital mapping server [invited speaker]*. Oral Presentation, Washington, DC.
63. **Higgins, M. K.** (2002, October). *NGB-CD's CD-GRASS and technology consortium programs [invited speaker]*. Oral Presentation, South Padre Island, TX.
64. **Higgins, M. K.**, & Thomas, Major Michael. (2002, December). *Conference workshop - national guard digital mapping server portal [invited speaker]*. Oral Presentation, Denver, CO.
65. **Higgins, M. K.** (2002, April). *NGB-CD's CD-GRASS and technology consortium programs [invited speaker]*. Oral Presentation, San Diego, CA.
66. **Higgins, M. K.** (2001, May). *NGB-CD's counterdrug GIS technology symposium [invited speaker]*. Key Coordinator & Presenter, Washington, DC.
67. **Higgins, M. K.** (2001, March). *NGB-CD counterdrug coordinator's conference - multiple talks and topics*. Key Participant & Presenter, Orlando, FL.
68. **Higgins, M. K.** (2001, December). *National guard GIS technology programs to support counterdrug law enforcement [invited speaker]*. Oral Presentation, Dallas, TX.
69. **Higgins, M. K.**, Doll, T., Faust, N., & Wasilewski, T. (2000, November). *Sensor fusion and image interpretation through integrated spatial/spectral pattern recognition*. Oral Presentation, Huntsville, AL (Redstone Arsenal).
70. Faust, N., & **Higgins, M. K.** (2000, June). *Counterdrug geographical regional assessment sensor system (CD-GRASS) [invited speaker]*. Oral Presentation, New Orleans, LA.
71. **Higgins, M. K.**, Doll, T., Faust, N., & Wasilewski, T. (2000, June). *Sensor fusion and image interpretation through integrated spatial/spectral pattern recognition*. Oral Presentation, San Antonio, TX (Kelly AFB).
72. **Higgins, M. K.** (2000, December). *CD-GRASS program: Interagency collaboration focused to support counterdrug law enforcement in GIS technologies [invited speaker]*. Oral Presentation, San Diego, CA.
73. **Higgins, M. K.** (2000, April). *NGB-CD counterdrug GIS technology symposium [invited speaker]*. Key Participant & Presenter, Washington, DC.
74. **Higgins, M. K.**, Faust, N., Doll, T., & Wasilewski, T. (1999, October). *Multi-modality targets classification and visualization [invited speaker]*. Oral Presentation, Rochester, NY.
75. **Higgins, M. K.**, & Asbell, W. Lt Col. (1999, March). *Counterdrug geographical regional assessment sensor system (CD-GRASS) program [invited speaker]*. Oral Presentation, Austin, TX.

76. **Higgins, M. K.**, & Asbell, W. Lt Col. (1999, June). *Counterdrug geographical regional assessment sensor system (CD-GRASS) program [invited speaker]*. Oral Presentation, Arlington, VA.
77. **Higgins, M. K.**, & Asbell, W. Lt Col. (1999, December). *Enhanced GIS and mapping support to counterdrug operations [invited speaker]*. Oral Presentation, Orlando, FL.
78. **Higgins, M. K.**, Faust, N., & Asbell, W. Lt Col. (1998, December). *Counterdrug geographical regional assessment sensor system (CD-GRASS) program [invited speaker]*. Oral Presentation, Washington, DC.
79. **Higgins, M. K.** (1997, November). *Selected topics of chemometrics/pattern recognition for the classification and modeling of chemical structure and composition [invited speaker]*. Oral Presentation, Gaithersburg, MD.
80. *Morgan, S. L., & **Higgins, M. K.** (1995, October). *Experimental designs for mixtures applied to multivariate calibration with spectroscopic data*. Invited paper - Oral Presentation, Cincinnati, OH.

Local, State and Regional Presentations

1. **Higgins, M.K.** (2023) Do You Know Where Your Data Should Be? (presented on 09/21/2023 as part of Fall 2023 Ethics Seminar Series, Emory School of Nursing)
2. **Higgins, M.K.** (2023) Working with Text in R; Presented March 16, 2023 to the Advancing Collaborative Biostatistics at Emory, Atlanta, GA
3. **Higgins, M.K.** (2023) This is Statistics and Data Science; given on PI DAY 03/14/2022 at Druid Hills High School, Atlanta, GA (sponsored by DHHS Math Club).
4. **Higgins, M.K.** (2022) This is Statistics and Data Science; given on PI DAY 03/14/2022 at Druid Hills High School, Atlanta, GA (sponsored by DHHS Math Club).
5. **Higgins, M.K.** (2022) *Workshop: R Workshop on Data Wrangling, Graphics and Mapping*; for Emory Rollins Mobile Health Collaborative, given on March 31, 2022.
6. **Higgins, M.K.** (2021). Making reproducibility practical – Using rmarkdown and R (+ more ...) (presented to the Oct 2021 Meeting of the Advancing Collaborative Biostatistics at Emory (ACBE))
7. **Higgins, M.K.** (2021). "Do You Know Where Your Data Should Be?" (presented on 09/21/2021 as part of Fall 2021 Ethics Seminar Series, Emory School of Nursing).
8. **Higgins, M. K.** (2021). Introduction to the Patchwork Package: Scaffolding for Composite Figures and Infographics (presented to the June 2021 Meeting of the Atlanta R Users Group), https://melindahiggins2000.github.io/AtlantaRUsers_24June2021/
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16. **Higgins, M. K.**, Williams, B., Paul, S., & Plotsky, A. (2015, November 17). *Responsible data management*. Oral Presentation, Atlanta, GA.
17. *Reilly, C. M., & **Higgins, M. K.** (2015, February 17). *Saving money with self-care interventions: Accounting for dollars and sense*. Oral Presentation, Atlanta, GA.
18. **Higgins, M. K.**, & Corwin, E. (2015, April 28). *The ethical use of data*. Oral Presentation, Atlanta, GA.
19. *Dunbar, S. B., Gary, R., Corwin, E., Miller, A., Hepburn, K., **Higgins, M. K.**, Butler, J., & Bauer-Wu, S. (2015). *Family caregiver intervention improves psychological symptoms in family caregivers of persons with heart failure*. Oral Presentation (B3-5), Tampa, FL. Retrieved from <http://snrs2015abstracts.conferencespot.org/58887-snrs-1.1858071/t-003-1.1859161/f-003-1.1859162/a-043-1.1859215/an-043-1.1860074>
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23. *+Butts, B., Gary, R., Reilly, C. M., **Higgins, M. K.**, Culler, S., Butler, J., & Dunbar, S. B. (2014). *Barriers to exercise in persons with heart failure and type 2 diabetes mellitus*. Student Poster (PSI-73), San Antonio, TX. Retrieved from <http://www.resourcenter.net/images/SNRS/Files/2014/AnnMtg/AbstractProceedings/data/papers/PSI-73.html>
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30. **Higgins, M. K.**, Williams, B., & Coffen, J. (2013, November 8). *Responsible data management*. Oral Presentation, Atlanta, GA.
31. Waldrop-Valverde, D., & **Higgins, M. K.** (2013, January 25). *Demystification of important research concepts: Covariates, confounding, moderators and mediators*. Oral Presentation, Atlanta, GA.
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Scholarship: Technical Reports

Department of Defense (DOD) and Related US Government Contract Deliverables

While at the Georgia Tech Research Institute (GTRI), Dr. Higgins oversaw the preparation and delivery of 448 technical reports; technology deliverables; monthly status reports; quarterly reports and comprehensive (bi-annual) reports for projects for which she was the PM (program manager) and PI (principal investigator)/co-PI.

[1] Higgins, M. K. (2009a). *AN/GRT-21/22 and the AN/GRR-23/24 technology insertion program: Acceptance test plan (option 1-5) [02/2008 to 05/2009]* (No. GSA Contract # 4TEZ21076812; GTRI Project # D-5247). Atlanta, GA: Georgia Tech Research Institute.

[2] Higgins, M. K. (2009b). *AN/GRT-21/22 and the AN/GRR-23/24 technology insertion program: Acceptance test report (option 1-5) [02/2008 to 05/2009]* (No. GSA Contract # 4TEZ21076812; GTRI Project # D-5247). Atlanta, GA: Georgia Tech Research Institute.

[3] Higgins, M. K. (2009c). *AN/GRT-21/22 and the AN/GRR-23/24 technology insertion program: Design report (option 1-5) [02/2008 to 05/2009]* (No. GSA Contract # 4TEZ21076812; GTRI Project # D-5247). Atlanta, GA: Georgia Tech Research Institute.

[4] Higgins, M. K. (2009d). *AN/GRT-21/22 and the AN/GRR-23/24 technology insertion program: Engineering study report (option 6) [05/2009 to 05/2009]* (No. GSA Contract # 4TEZ21076812; GTRI Project # D-5247). Atlanta, GA: Georgia Tech Research Institute.

- [5] Higgins, M. K. (2009e). *AN/GRT-21/22 and the AN/GRR-23/24 technology insertion program: Reliability analysis report (option 1-5) [02/2008 to 05/2009]* (No. GSA Contract # 4TEZ21076812; GTRI Project # D-5247). Atlanta, GA: Georgia Tech Research Institute.
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- [37] Higgins, M. K. (2009i). *Development of microfluidic assay for determination of protein toxins: Final prototypes [08/2007 to 02/2009]* (No. GSA Contract # GST0407DE0023; GTRI Project # D-5494). Atlanta, GA: Georgia Tech Research Institute.
- [38-53] Higgins, M. K. (2009j). *Development of microfluidic assay for determination of protein toxins: Monthly status reports #01 - #16 [08/2007 to 01/2009]* (No. GSA Contract # GST0407DE0023; GTRI Project # D-5494). Atlanta, GA: Georgia Tech Research Institute.
- [54] Higgins, M. K. (2008a). *Mobility electronic combat officers course (MECOC) material update - 2008: Contractor manpower report [01/2008 to 10/2008]* (No. GSA Contract # 4QAZ21086801; GTRI Project # D-5642). Atlanta, GA: Georgia Tech Research Institute.
- [55-65] Higgins, M. K. (2008b). *Mobility electronic combat officers course (MECOC) material update - 2008: Monthly status report #01 - #11 [01/2008 to 12/2008]* (No. GSA Contract # 4QAZ21086801; GTRI Project # D-5642). Atlanta, GA: Georgia Tech Research Institute.
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- [75] Higgins, M. K. (2007h). *Engineering services COTS (commercial off the shelf) or NDI (non-development item) replacement assemblies for AN/GRT-21 (GRR/GRT) radios sustainability: Engineering study report [04/2005 to 04/2007]* (No. GSA Contract # 4TEO21056802; GTRI Project # A-7678). Atlanta, GA: Georgia Tech Research Institute.
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- [102] Higgins, M. K. (2007o). *UAV (unmanned aerial vehicle) technical support to USAID and georgia national guard: After action report [02/2007 to 10/2007]* (No. GSA Contract # 4TEZ21066809; GTRI Project # D-5296). Atlanta, GA: Georgia Tech Research Institute.
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- [393] Higgins, M. K. (2003q). *DMS (digital mapping server) portal tasks: Integration of GTVIS (georgia tech visual information server) and extended applications: Initial prototype [04/2003 to 09/2003]* (No. GSA Contract # T040BF0228; GTRI Project # A-7126). Atlanta, GA: Georgia Tech Research Institute.
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- [396] Higgins, M. K. (2003t). *DMS (digital mapping server) portal tasks: Integration of GTVIS (georgia tech visual information server) and extended applications: Preliminary design with plan [04/2003 to 06/2003]* (No. GSA Contract # T040BF0228; GTRI Project # A-7126). Atlanta, GA: Georgia Tech Research Institute.
- [397] Higgins, M. K. (2003u). *Engine asset contractor logistics support study: Final report [02/2003 to 08/2003]* (No. GSA Contract # 4TEO21037018; GTRI Project # A-7096). Atlanta, GA: Georgia Tech Research Institute.
- [398] Higgins, M. K. (2003v). *Engine asset contractor logistics support study: Technical report - study/service [02/2003 to 08/2003]* (No. GSA Contract # 4TEO21037018; GTRI Project # A-7096). Atlanta, GA: Georgia Tech Research Institute.

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- [402-407] Higgins, M. K. (2003z). *Georgia digital ortho-photo quads (DOQQs): Status and budget expense reports (hardcopy and electronic) #01 - #06 [10/2002 to 09/2003]* (No. GSA Contract # T0403BF0072; GTRI Project # A-7033). Atlanta, GA: Georgia Tech Research Institute.
- [408] Higgins, M. K. (2003aa). *Marijuana remote sensing plan: Initial workshop planning meeting [03/2003 to 11/2003]* (No. GSA Contract # T0403BF0245; GTRI Project # A-7150). Atlanta, GA: Georgia Tech Research Institute.
- [409] Higgins, M. K. (2003ab). *Marijuana remote sensing plan: Technical specifications and experimental design report [03/2003 to 12/2003]* (No. GSA Contract # T0403BF0245; GTRI Project # A-7150). Atlanta, GA: Georgia Tech Research Institute.
- [410] Higgins, M. K. (2003ac). *Marijuana remote sensing plan: Workshop meeting report [03/2003 to 12/2003]* (No. GSA Contract # T0403BF0245; GTRI Project # A-7150). Atlanta, GA: Georgia Tech Research Institute.
- [411] Higgins, M. K. (2003ad). *Radio frequency identification (RFID) and sensor array integration: ISRFID handheld unit with CMB prototype [02/2003 to 08/2003]* (No. GSA Contract # 4TEO21037022; GTRI Project # A-7079). Atlanta, GA: Georgia Tech Research Institute.
- [412] Higgins, M. K. (2003ae). *Radio frequency identification (RFID) and sensor array integration: Technical report - study/service [02/2003 to 08/2003]* (No. GSA Contract # 4TEO21037022; GTRI Project # A-7079). Atlanta, GA: Georgia Tech Research Institute.
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- [414] Higgins, M. K. (2003ag). *Standardized c-130 pallet design: 2nd pallet design [04/2003 to 11/2003]* (No. GSA Contract # T040BF0240; GTRI Project # A-7149). Atlanta, GA: Georgia Tech Research Institute.
- [415] Higgins, M. K. (2003ah). *Standardized c-130 pallet design: Bench, ground, air test plan [04/2003 to 12/2003]* (No. GSA Contract # T040BF0240; GTRI Project # A-7149). Atlanta, GA: Georgia Tech Research Institute.
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Teaching Activities

Courses Taught

| Date | Course Number and Title | Role |
|---------------|---|--|
| 2024 – Spring | Emory-NRSG 741: Big Data Analytics for Healthcare | Primary Instructor |
| 2023 – Fall | Emory IBS 519 Statistical Rigor, Reproducibility, and Experimental Design for Biomedical Data Analysis. | Guest Lecturer (3 classes) |
| 2023– Fall | Emory-NRSG 736: Quantitative Analysis of Clinical Data | Primary Instructor |
| 2023 – Spring | Emory-NRSG 730 Measurement and Design in Clinical Research [Power/Sample Size] | Guest Lecturer |
| 2023 – Spring | Emory-NRSG 741: Big Data Analytics for Healthcare | co-Instructor |
| 2022– Fall | Emory-NRSG 736: Quantitative Analysis of Clinical Data | Primary Instructor |
| 2022 – Fall | Emory IBS 519 Statistical Rigor, Reproducibility, and Experimental Design for Biomedical Data Analysis. | Guest Lecturer (and assisted Course Development) |
| 2022 – Spring | Emory-NRSG 730 Measurement and Design in Clinical Research [Power/Sample Size] | Guest Lecturer |
| 2022 – Spring | Emory-NRSG 741: Big Data Analytics for Healthcare | co-Instructor |
| 2021 – Fall | Emory-NRSG 736: Quantitative Analysis of Clinical Data | Primary Instructor |
| 2021 – Spring | Emory-NRSG 741: Big Data Analytics for Healthcare | co-Instructor |
| 2020 – Fall | Emory-NRSG 736: Quantitative Analysis of Clinical Data | Primary Instructor |
| 2020 – Summer | Emory-NRSG 504: Introduction to Biostatistics | Course Coordinator, co-instructor |
| 2020 - Spring | Emory-NRSG 741: Big Data Analytics for Healthcare | co-Instructor |
| 2019 - Fall | Emory-NRSG 736: Quantitative Analysis of Clinical Data | Primary Instructor |
| 2019 - Fall | Emory-NRSG 710: Principles of Health Outcomes Research | co-Instructor |
| 2019 - Summer | Emory-NRSG 504: Introduction to Biostatistics | Course Coordinator, co-instructor |
| 2019 - Spring | Emory-NRSG 741: Big Data Analytics for Healthcare | co-Instructor |
| 2018 - Fall | Emory-NRSG 736: Quantitative Analysis of Clinical Data | Primary Instructor |
| 2018 - Fall | Emory-NRSG 710: Principles of Health Outcomes Research | co-Instructor |
| 2018 - Spring | Emory-NRSG 741: Big Data Analytics for Healthcare | co-Instructor |
| 2017 - Spring | Emory-NRSG 741: Big Data Analytics for Healthcare | co-Instructor |
| 2017 - Fall | Emory-NRSG 736: Quantitative Analysis of Clinical Data | Primary Instructor |
| 2016 - Summer | Emory-Bundles Program (incoming BSN students): Statistics Topics Review | Primary Lecturer |
| 2016 - Spring | Emory-NRSG 797R: Directed Study (Sheilia Jordan, PhD Candidate School of Nursing) | Primary Instructor |
| 2016 - Spring | Emory-NRSG 730 Measurement and Design in Clinical Research | Guest Lecturer |
| 2016 - Fall | Emory-NRSG 797R: Directed Study (Mariya Kovaleva, PhD Candidate School of Nursing) | Primary Instructor |
| 2016 - Fall | Emory-NRSG 710 Principles of Health Outcomes Research | Specialty Statistical Instructor (Daniel Mengistu, Fekadu Ada, |

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| | | PhD Candidates from Addis Ababa) |
| 2015 - Spring | Emory-NRSG 730 Measurement and Design in Clinical Research | Guest Lecturer |
| 2015 - Spring | Emory-NRSG 505 Research and Evidence Based Practice | Guest Lecturer |
| 2015 - Fall | Emory-NRSG 736: Quantitative Analysis of Clinical Data | Primary Instructor |
| 2015 - Fall | Emory-NRSG 710 Principles of Health Outcomes Research | Guest Lecturer |
| 2015 - Fall | Emory-NRSG 204 Introduction to Biostatistics (online) | Guest Lecturer (created, recorded 2 lectures/ videos) |
| 2014 - Spring | Emory-NRSG 730 Measurement and Design in Clinical Research | Guest Lecturer |
| 2014 - Spring | Emory-NRSG 733 Health Risk: Interventions and Outcomes | Guest Lecturer |
| 2014 - Fall | Emory-NRSG 797R: Directed Study (Brittany Butts, PhD Candidate School of Nursing) | Primary Instructor |
| 2014 - Fall | Emory-NRSG 710 Principles of Health Outcomes Research | co-Instructor |
| 2013 - Spring | Emory-NRSG 730 Measurement and Design in Clinical Research | Guest Lecturer |
| 2013 - Spring | Emory-NRSG 507 Theory & Research Applications | Guest Lecturer |
| 2013 - Spring | Emory-NRSG 508 Honors Research II | Guest Lecturer |
| 2013 - Spring | VA (Veterans Administration) Fellows Quality/Safety Program | Guest Lecturer |
| 2013 - Fall | Emory-NRSG 736: Quantitative Analysis of Clinical Data | Primary Instructor |
| 2013 - Fall | Emory-NRSG 797R: Directed Study (Blake McGee, PhD Candidate School of Nursing) | Primary Instructor |
| 2013 - Fall | Emory-NRSG 710 Principles of Health Outcomes Research | Guest Lecturer (6 classes) |
| 2012 - Summer | Emory-NRSG 507 Theory & Research Applications | Guest Lecturer |
| 2012 - Spring | Emory-NRSG 371H Honors Research/Professional Development III Honors | Guest Lecturer |
| 2012 - Spring | Emory-NRSG 730 Measurement and Design in Clinical Research | Guest Lecturer |
| 2012 - Fall | Emory-BIOS 500L: Statistical Methods I - SAS Programming Computer Lab | Primary Instructor |
| 2012 - Fall | Emory-NRSG 710 Principles of Health Outcomes Research | Guest Lecturer (6 classes) |
| 2012 - Fall | Emory-NRSG 507 Theory & Research Applications | Guest Lecturer |
| 2011 - Summer | Emory-NRSG 797R: Directed Study (Tingting Liu, PhD Candidate School of Nursing) | Primary Instructor |
| 2011 - Summer | Emory-NRSG 507 Theory & Research Applications | Guest Lecturer (2 classes) |
| 2011 - Summer | Emory-NRSG 507 (Honors) Theory & Research Applications | Guest Lecturer (2 classes) |
| 2011 - Spring | Emory-NRSG 797R: Directed Study (Debbie Stevens, PhD Candidate School of Nursing) | Primary Instructor |

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| 2011 - Spring | Emory-NRSG 371 Evidence Based Nursing Practice | Guest Lecturer |
| 2011 - Spring | Emory-NRSG 371H Honors Research/Professional Development III Honors | Guest Lecturer |
| 2011 - Spring | Emory-NRSG 730 Measurement and Design in Clinical Research | Guest Lecturer |
| 2011 - Spring | Emory-NRSG 731 Advanced Approaches to Measurement and Design in Clinical Research | Guest Lecturer |
| 2011 - Fall | Emory-BIOS 500: Statistical Methods I - Lecture | Primary Instructor |
| 2011 - Fall | Emory-BIOS 500L: Statistical Methods I - SAS Programming Computer Lab | Primary Instructor |
| 2011 - Fall | Emory-NRSG 371 Evidence Based Nursing Practice | Guest Lecturer |
| 2011 - Fall | Emory-NRSG 507 Theory & Research Applications | Guest Lecturer (2 classes) |
| 2010 - Summer | Emory-NRSG 507 Theory & Research Applications | Guest Lecturer |
| 2010 - Spring | Emory-NRSG 371H Honors Research/Professional Development III Honors | Guest Lecturer |
| 2010 - Spring | Emory-NRSG 474H Research Honors II | Guest Lecturer |
| 2010 - Spring | Emory-NRSG 730 Measurement and Design in Clinical Research | Guest Lecturer (3 classes) |
| 2010 - Spring | Emory-NRSG 733 Health Risk: Interventions and Outcomes | Guest Lecturer |
| 2010 - Spring | Emory-ATA 481 Pastoral Counseling Research | Guest Lecturer |
| 2010 - Spring | Emory-NRSG 507 Theory & Research Applications | Guest Lecturer |
| 2010 - Fall | Emory-BIOS 500: Statistical Methods I - Lecture | Primary Instructor |
| 2010 - Fall | Emory-BIOS 500L: Statistical Methods I - SAS Programming Computer Lab | Primary Instructor |
| 2010 - Fall | Emory-NRSG 710 Principles of Health Outcomes Research | Guest Lecturer (4 classes) |
| 2010 - Fall | Emory-NRSG 371 Evidence Based Nursing Practice | Guest Lecturer |
| 2009 - Spring | Emory-NRSG 371H Honors Research/Professional Development III Honors | Guest Lecturer |
| 2009 - Spring | Emory-NRSG 474H Research Honors II | Guest Lecturer |
| 2009 - Spring | Emory-NRSG 730 Measurement and Design in Clinical Research | Guest Lecturer |
| 2009 - Spring | Emory-NRSG 732 Theoretical and Scientific Bases Clinical Phenomena | Guest Lecturer |
| 2009 - Spring | Emory-NRSG 732: Theoretical and Scientific Basis for the Study of Clinical Phenomena | Guest Lecturer |
| 2009 - Fall | Emory-BIOS 500: Statistical Methods I - Lecture | Primary Instructor |
| 2009 - Fall | Emory-BIOS 500L: Statistical Methods I - SAS Programming Computer Lab | Primary Instructor |
| 2008 - Spring | Emory-NRSG 474H Research Honors II | Guest Lecturer |
| 2008 - Spring | Emory-NRSG 730 Measurement and Design in Clinical Research | Guest Lecturer |
| 2008 - Spring | Emory-NRSG 733 Health Risk: Interventions and Outcomes | Guest Lecturer |
| 2008 - Fall | Emory-NRSG 710 Principles of Health Outcomes Research | Guest Lecturer |

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| 2007 - Fall | Emory-NRSG 710 Principles of Health Outcomes Research | Guest Lecturer |
| 2002 - 2011 | Georgia Tech-CP 6531 Introduction to Remote Sensing | Guest Lecturer |
| 1998 - 2011 | GLOBE (Global Learning and Observations to Benefit the Environment) [https://www.globe.gov/] | Author and Instructor - Special Topics Statistics Curriculum for the GLOBE Program |
| 1998 - 2011 | GLOBE (Global Learning and Observations to Benefit the Environment) [https://www.globe.gov/] | Certified Instructor for K-12 Educators |
| 1994 - 1995 | USC-Statistics 201 (University of South Carolina - Statistics Department) | Primary Instructor |
| 1990 - 1994 | Statistical Designs: Short Course "Experimental Design and Quality in Research, Development and Manufacturing" [http://www.statisticaldesigns.com/] | Assistant Instructor |
| 1989 - 1994 | USC-Honors Chemistry (University of South Carolina - Chemistry Department) | Teaching Assistant |

Statistical Workshops (in addition to courses)

| Date | Workshop Title |
|------------------|--|
| August-Sept 2023 | R Training Workshops for HJF Global Infectious Diseases |
| March 2023 | Working with Text in R - 2 skills 4 exercises; Text-to-Columns; Search Across Columns; Parse FREE OPEN Text – for the Advancing Collaborative Biostatistics at Emory (ACBE) Meeting |
| Jan 2023 | HJF R Lecture for Data Coordinating and Analysis Center (DCAC) HJF Global Infectious Diseases; In support of MHRP, EIDB, and DCB (https://www.hivresearch.org/) |
| November 2022 | Emory R Workshop: November 11, 2022 – for the Rollins COVID-19 Epidemiology Fellowship R Training |
| October 2022 | Emory R Workshop: October 26, 2022 – for the R Workshop for Emory Rollins Mobile Health Collaborative |
| April 2022 | CDC R Workshop April 21-22, 2022 |
| March 2022 | Workshop: R Workshop on Data Wrangling, Graphics and Mapping; for Emory Rollins Mobile Health Collaborative |
| November 2019 | R Workshop on Rmarkdown November 12, 2019 (at Kennesaw State University) |
| August 2018 | R Workshop: Regression Models and Presentation |
| July 2018 | R Workshop: Univariate and Bivariate Stats and Graphics |
| June 2018 | R Workshop: R and RStudio Basics and Simple Functions |
| March 2018 | Reproducible Research Pipelines Using R and RStudio Best Practices for Analysis and Dissemination [SNRS 2018 Pre-conference Workshop; Atlanta, GA] |
| November 2016 | R Workshop: Putting Everything Together for a Simple Statistical Analysis Report |
| October 2016 | R Workshop: Tailoring Your Rmarkdown Reports |
| September 2016 | R Workshop: What is Reproducible Research and Dynamic Documentation? |
| April 2016 | R Workshop: Getting Started with Statistical Modeling with R |
| March 2016 | R Workshop: Reproducible Resarch with R (data + Analysis + Documentation) |
| February 2016 | R Workshop: Introduction to R, RStudio and Working in the R Environment |

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| February 2016 | R Workshop: Introductory Data Management, Statistical Analyses and Graphics with R |
| January 2016 | R Workshop: Introduction to R, RStudio and Working in the R Environment |
| December 2012 | Lunch and Learn: From Theory to Practice: Initial Data Assessment and Preliminary Analyses |
| December 2012 | Basic Data Assessment: Cleaning Data, Handling Missing Data and Running Descriptive and Initial Statistics |
| October 2012 | Lunch and Learn: Early Conceptualization of Data Collection and Management |
| October 2012 | Data Collection, Coding and Import: Recommended Standards |
| February 2012 | The Importance of “Correct “ Longitudinal Modeling? |
| April 2011 | SPSS Introductory Workshop (for faculty pursuing their DNP degree) |
| March 2011 | Publication/Writer’s Workshop: Statistical Consultation - How to Write Up Statistics and Data |
| April 2009 | Categorical Data Analysis 2x2 Chi-Square Tests and Beyond (Multiple Categorical Variable Models)” |
| April 2009 | Structural Equation Modeling (SEM) |
| March 2009 | Multi-Level Models: What are they and How do they work? |
| February 2009 | A Practical Approach to Power, Effect Size and Sample Size and A Hands-on Workshop for PASS |
| November 2008 | Mediation versus Moderation |
| November 2008 | How to Build a Regression Model |
| October 2008 | How to Build a Regression Model |
| September 2008 | I Have a Bunch of Data - Not What? Data Screening, Exploring and Clean-up |
| April 2008 | Longitudinal Data - Repeated Measures, Survival (Time to Event) and Cox Proportional Hazards Models |
| April 2008 | Research Design, Sources of Variance and Initial Discussion of Intent to Treat |
| February 2008 | I Have a Bunch of Data - Not What? Data Screening, Exploring and Clean-up |
| December 2007 | A Practical Approach to Power, Effect Size and Sample Size and A Hands-on Workshop for PASS |
| October 2007 | Latent Variates and Multicollinearity - Good or Bad? |

Doctor of Philosophy (student advisement)

| Date | Student | School | Role |
|---------|----------------------------|---|---------------------|
| current | Rebecca Ellis | Emory University - School of Nursing | Committee Member |
| current | Gayeong Kim | Emory University - School of Nursing | Committee Member |
| current | Megan Mayfield | Emory University - School of Nursing | Committee Member |
| current | Alyssa Monda | Emory University - School of Nursing | Committee Member |
| current | Emebet Berhane Woldemariam | Emory University - School of Nursing/ Addis Ababa University | Committee Member |

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|---------|---|---|-------------------------------|
| current | Semarya Berhe Lemlem | Emory University - School of Nursing/ Addis Ababa University | Committee Member |
| current | Wudma Alemu | Emory University - School of Nursing/ Addis Ababa University | Committee Member |
| current | Yohannes Ayalew | Emory University - School of Nursing/ Addis Ababa University | Committee Member |
| current | Roza Teshome Kassa | Emory University - School of Nursing/ Addis Ababa University | Committee Member |
| 2023 | Daniel Mengistu "Cardiovascular Disease Risk Reduction Behaviors, Knowledge and Risk Perceptions of Adult Hypertensives in Addis Ababa, Ethiopia | Emory University - School of Nursing/ Addis Ababa University | Committee Member |
| 2023 | Crista Irwin "LivFit with HIV: Reducing inflammation and improving endothelial function with exercise adherence among older persons with HIV" | Emory University - School of Nursing | Committee Member |
| 2023 | Amy Kolwaite "Identifying and Addressing Healthcare Disparities in the Pediatric Acute Care Setting" | Emory University - School of Nursing | Committee Member |
| 2022 | Erica Davis "Relationships among Dietary Patterns, Metabolites, and Symptoms in Persons with Heart Failure" | Emory University - School of Nursing | Committee Member |
| 2022 | Lemlem Beza Symptom knowledge, delay in treatment - seeking behaviors, and associated socio-demographic and clinical factors among patients with acute coronary syndrome (ACS) admitted to an Emergency department in Addis Ababa, Ethiopia | Emory University - School of Nursing/ Addis Ababa University | Committee Member |
| 2022 | Jade McBroom "The Influence of Postpartum Retention in Care on Mortality in Women Living with HIV" | Emory University - School of Nursing | Committee Member |
| 2022 | Rosemary Kinuthia "Evaluation of Facility-Based Individual Differentiated Service Delivery Among Stable People Living with HIV in Nairobi, Kenya Using Mixed Methods Research" | Emory University - School of Nursing | Statistical Advisement |
| 2022 | Kent Hawthorn "The role of the circulating registered nurse in communicating and fostering relationships and the impact on time spent in the operating room" | Emory University - School of Nursing | Chair of Committee |

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| 2022 | Shelia Jordan "The Role of Vitamin D in Hypertensive Disorders of Pregnancy and Gene Expression within an African American Cohort" | Emory University - School of Nursing | Statistical Advisement |
| 2022 | Carrie J. Henry "Relationships Among Strong Black Woman Belief, Coping Behaviors, Social Support, and Psychological Distress for Black Mothers After Stillbirth" | Emory University - School of Nursing | Statistical Advisement |
| 2021 | Amy Greenblatt "Characteristics and Treatment Outcomes of Adolescents with Disruptive Mood Dysregulation Disorder in Psychiatric Residential Treatment" | Emory University - School of Nursing | Committee Member |
| 2020 | William Gregory Johnson "Education Research Using Data Mining and Machine Learning with Computer Science Undergraduates" | Georgia State University – Computer Science | Committee Member |
| 2020 | Amy Blumling "The Relationship of Physical Function and Psychosocial Health on Quality of Life in Individuals with 48,XXYY" | Emory University - School of Nursing | Statistical Advisement |
| 2019 | Moka Yoo "Social Isolation and Retention in Care among Older Adults Living with HIV/AIDS" | Emory University - School of Nursing | Statistical Advisement |
| 2019 | Fekadu Aga "Correlates of Diabetes Self-Care Behaviors in the Context of Comorbid Heart Failure" | Emory University - School of Nursing/Addis Ababa University | Committee Member |
| 2019 | Telisa Spikes "Hypertensive Medication Adherence in Young Adult African American Women 18-45 Years of Age" | Emory University - School of Nursing | Committee Member |
| 2018 | Udia Otuguor "Heart Failure Family Caregiver Sleep Quality and Physical, Psychological, and Physiologic Outcomes" | Emory University - School of Nursing | Committee Member |
| 2018 | Mariya Kovaleva "Experiences of Caregivers of Dementia Patients with an Integrated Primary Care Model" | Emory University - School of Nursing | Statistical Advisement |
| 2018 | Blake McGee: "How Does Prescription Drug Spending Affect Medication Adherence, Acute Care Use, and Health Care Costs in Heart Failure?" | Emory University - School of Nursing | Committee Member |
| 2018 | Sara Edwards: "Brain-Gut Axis and Its Influence on Gestational Weight Gain" | Emory University - School of Nursing | Statistical Advisement |
| 2017 | Maya Baumann: "Theoretical Factors Associated with Real-time Use of an mHealth App Designed for HIV Self-management" | Emory University - School of Nursing | Committee Member |
| 2017 | Kate Woeber: "Use of a Theoretical Model to Evaluate and Strategically Scale-Up Midwifery Education and Workforce" | Emory University - School of Nursing | Committee Member |
| 2017 | Alexis Dunn: "Complement Activation and Perinatal Outcomes in African American Women" | Emory University - School of Nursing | Statistical Advisement |
| 2017 | Jennifer Vanderlaan: "Associations between Delivery Hospital Obstetric Service Level and Selected | Emory University - School of Nursing | Statistical Advisement |

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| | Maternal and Perinatal Outcomes for High Risk Women” | | |
| 2016 | Brittany Butts: “Effects of Exercise on Epigenetic Pathways in Persons with Heart Failure” | Emory University - School of Nursing | Statistical Advisement |
| 2016 | Valerie Mac: “Characterizing Heat-Related Illness in Florida Farmworkers: A Feasibility Study” | Emory University - School of Nursing | Statistical Advisement |
| 2016 | Augustina Mara Delaney: “Psychosocial, clinical, and behavioral factors related to dual method contraceptive use in HIV positive women” | Emory University - School of Nursing | Statistical Advisement |
| 2015 | Tingting Liu: “A Comparison of Biological, Physical, and Psychological Risk Factors for Cardiovascular Disease In Overweight/Obese Individuals With and Without Prediabetes” | Emory University - School of Nursing | Statistical Advisement |
| 2015 | Nancy McCabe: “Antecedents and Outcomes of Self-Care in Adults with Congenital Heart Disease” | Emory University - School of Nursing | Statistical Advisement |
| 2015 | Priscilla Hall: “Keeping it Together, Falling Apart and Everything in Between: A Phenomenology of Women’s Experiences of Childbirth” | Emory University - School of Nursing | Statistical Advisement |
| 2014 | Debbie Stevens: “Caregiver Burden and Racial Discrimination in African Americans: A Mixed Methods Study of Chronic Stress” | Emory University - School of Nursing | Statistical Advisement |
| 2013 | Michelle Dynes: “Sociocultural Factors Shaping Trust and Teamwork among Community Maternal and Newborn Health Workers in Rural Ethiopia” | Emory University - School of Nursing | Statistical Advisement |
| 2013 | Erin Ferranti: “Dietary Quality and Cardiometabolic Risk after Gestational Diabetes” | Emory University - School of Nursing | Statistical Advisement |
| 2013 | Hanna Demeke: “Relationships between HIV-related Stigma, Coping, Social Support and Health-related Quality of Life in People Living with HIV/AIDS” | Emory University - School of Nursing | Statistical Advisement |
| 2013 | Genevieve Antoinette Desaulniers: “Sleep Disturbance in Adolescent Survivors of Childhood Cancer” | Emory University - School of Nursing | Statistical Advisement |
| 2012 | Terri Marin: “Mesenteric Perfusion Pattern Changes as the Result of Packed Red Blood Cell Transfusions in Preterm Infants” | Emory University - School of Nursing | Statistical Advisement |
| 2012 | Kristen VanderEnde: “Community-level Correlates of Intimate Partner Violence Against Women in Bangladesh” | Emory University - School of Nursing | Statistical Advisement |
| 2012 | Jessica Holmes: “Chemotherapy Adherence Decision Making in Early Stage Breast Cancer” | Emory University - School of Nursing | Statistical Advisement |
| 2012 | Kate Yeager: “Symptoms and Self-Management in Low Income African Americans with Advanced Cancer” | Emory University - School of Nursing | Statistical Advisement |
| 2010 | Ingrid Duva: “Factors Impacting Staff Nurse Care Coordination” | Emory University - School of Nursing | Statistical Advisement |

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| 2010 | Joyce Edmonds: “Social Networks, Decision Making and Use of Skilled Birth Attendants to Prevent Maternal Mortality in Matlab, Bangladesh” | Emory University - School of Nursing | Committee Member |
|------|---|--------------------------------------|------------------|

Doctor of Nursing Practice (student advisement)

| Date | Student | School | Role |
|------|---|--------------------------------------|------------------------|
| 2016 | Paula Tucker: Doctorate of Nursing Practice | Emory University - School of Nursing | Statistical Advisement |
| 2016 | Eve Byrd: Doctorate of Nursing Practice | Emory University - School of Nursing | Statistical Advisement |

Masters of Science (student advisement)

| Date | Student | School | Role |
|------|--|---|--|
| 2016 | Marion Rice: “Low medication adherence associated with low intrinsic motivation: an observational study in rural Georgia HIV clinics” | Emory University - School of Public Health | Statistical Advisement |
| 2015 | Amy Greenglatt: Masters of Public Health “Relational Correlates of Mental Illness Stigma in Female Adolescents” | Emory University - School of Public Health | Thesis Committee Member |
| 2014 | Megan Jo Thompson: Masters of Public Health “Nursing Workforce Distribution in Kenya” | Emory University - School of Public Health | Statistical Advisement |
| 2004 | Lawrence Anthony Faragotti, Masters of Science in Aerospace Engineering Thesis: Sensitivity Analysis of the C-130 Sensor Deployment System Arm using Finite Element Methods | University of West Virginia - Department of Mechanical and Aerospace Engineering, Morgantown, WV. | PI/Sponsor of Contract That Funded This Work |
| 2004 | Robert Paul Hayes, Masters of Science in Electrical Engineering Thesis: Control System Design for a C-130 RO-RO Sensor Deployment Platform | West Virginia University – Lane Department of Computer Science and Electrical Engineering, Morgantown, WV | PI/Sponsor of Contract That Funded This Work |
| 2004 | Adam C. Naternicola, Masters of Science in Mechanical Engineering Thesis: Dynamic Modal Analysis and Optimization of C-130 Project Oculus’ Mechanical Arm/Pod Sensor Deployment System Using the Finite Element Method | West Virginia University – Department of Mechanical and Aerospace Engineering, Morgantown, WV | PI/Sponsor of Contract That Funded This Work |
| 2004 | Zenovy S. Wowczuk, Masters of Science in Mechanical Engineering Thesis: Design of a Standardized Sensor Pallet Platform for a C-130 Aircraft | West Virginia University – Department of Mechanical and Aerospace Engineering, Morgantown, WV | PI/Sponsor of Contract That Funded This Work |
| 2004 | Derrick Karimi, Masters of Science in Computing | Georgia Institute of Technology - College of Computing | PI/Sponsor of Contract That Funded This Work |

Bachelor's of Science (student advisement)

| Date | Student | School | Role |
|------|--------------------------------------|---|------------------------|
| 2017 | Lindsay Markham (BSN Honors Thesis) | Emory University - School of Nursing | Honors Thesis Reader |
| 2016 | Treeah Majors (BSN Honors Thesis) | Emory University - School of Nursing | Honors Thesis Reader |
| 2016 | Molly Jobe (BSN Honors Thesis) | Emory University - School of Nursing | Statistical Advisement |
| 2016 | Rebecca Chambers (BSN Honors Thesis) | Emory University - School of Nursing | Statistical Advisement |
| 2016 | Rubi Garcia (BSN Honors Thesis) | Emory University - School of Nursing | Statistical Advisement |
| 2015 | Jeong Hee (BSN Honors Thesis) | Emory University - School of Nursing | Statistical Advisement |

Professional and University Service Activities

Membership and Leadership in Professional Organizations

| Dates | Organization Name | Role |
|----------------|--|--|
| 2024 | American Statistical Association (ASA) | Nominated for 2025 TSHS Section Representative to Council of Sections |
| 2023-2025 | American Statistical Association (ASA) | Chair of Teaching Statistics in the Health Sciences Section |
| 2022 | American Statistical Association (ASA) | Nominated for 2023-2025 Chair Teaching Statistics in the Health Sciences Section |
| 2022 | American Statistical Association (ASA) | Nominated for 2023-2025 Chair of Council of Chapters Governing Board |
| 2020-2022 | American Statistical Association (ASA) | Elected to Vice Chair of District 5; Member of Council of Chapters Governing Board |
| 2018 - current | R-Ladies - Atlanta Chapter | co-Founder |
| 2017 - current | American Heart Association (AHA) | Member |
| 2014 - current | Georgia Chapter of the American Statistics Association (ASA) | Georgia Chapter Representative to the National ASA (and backup Treasurer) |
| 1994 - current | American Chemical Society | Member |
| 2009 - 2014 | Georgia Chapter of the American Statistics Association (ASA) | President |
| 2008 - 2011 | SENSIAC TATs (Military Sensing Information Analysis Center - Technical Area Tasks) | co-Manager |
| 2008 - 2009 | Georgia Chapter of the American Statistics Association (ASA) | Vice-President |
| 2006 - 2008 | Georgia Chapter of the American Statistics Association (ASA) | Secretary |
| 2006 - 2007 | Air Force Scientific Advisory Board | Consultant |
| 2005 - 2007 | Technology Partnership Council for Homeland Defense | National Guard Bureau Technology Advisor |
| 2004 - current | Association Statistical Association (ASA) | Member |
| 2004 - 2017 | American Society for Photogrammetry and Remote Sensing (ASPRS) | Member |
| 2002 - 2005 | National Institute of Justice: Border Technology Research Center Advisory Council | Member |
| 2001 - 2011 | International Society for Information Fusion | Member |
| 1998 - 2011 | National Guard Bureau Technology Consortium | Program Manager |
| 1996 - current | North American Chapter of the International Chemometrics Society (NAMICS) | Member |
| 1996 - 1998 | Atlanta/Athens Mass Spectrometry Discussion Group | Member |

Editorships and Editorial Boards

| Dates | Role | Journal |
|-----------|---|--------------------------------|
| 2023-2024 | Associate Editor https://onlinelibrary.wiley.com/page/journal/1098240x/homepage/editorialboard.html | Research in Nursing and Health |
| 2023 | Editorial Board https://journals.sagepub.com/editorial-board/cnr | Clinical Nursing Research |

Manuscript Reviewer

| Dates | Journal |
|-------------|--|
| 2018 - 2018 | Statistics in Medicine |
| 2016 - 2018 | Western Journal of Nursing Research (WJNR) |
| 2015 - 2023 | Journal of Statistics Education |
| 2014 - 2014 | Field Methods |
| 2012 - 2020 | Research in Nursing & Health |

National and International Consultation

| Year | Activity |
|------|---|
| 2023 | HJF R Lecture - For Data Coordinating and Analysis Center (DCAC) HJF Global Infectious Diseases; In support of MHRP, EIDB, and DCB (https://www.hivresearch.org/) |
| 2022 | Centers for Disease Control and Prevention (CDC) - Professional Consulting and Teaching - 2-days Short Course on R and RStudio |
| 2020 | Centers for Disease Control and Prevention (CDC) - Professional Consulting and Teaching - 2-days Short Course on R and RStudio |
| 2016 | Centers for Disease Control and Prevention (CDC) - Professional Consulting and Teaching - 2-days Short Course on R and RStudio |
| 1996 | Expert Witness: Analytical analyses performed under project GTRI: T-1156-000 for Powell, Goldstein, Frazer, and Murphy, Law Firm, produced a final report entitled "Chemical Emissions from Commercial Products," which was instrumental in settling the court case in question. (Final Report Issued July 1996). |

Emory University Service

| Dates | Organization Name | Role |
|----------------|---|--|
| 2021 - current | Advancing Collaborative Biostatistics at Emory (ACBE) | Member/Coordinator |
| 2017 Fall | Emory Data Science Research and Education Academic Learning Community | Member |
| 2014 - current | Emory Center for Health Discovery and WellBeing (CHDWB)/Predictive Health Institute (PHI) Executive Committee | Member and Author of CHDWB/PHI Database Codebook (online website book) |
| 2014 - current | Emory Information Technology Steering Committee | Member |

Nell Hodgson Woodruff School of Nursing Service

| Dates | Organization Name | Role |
|----------------|--|---|
| 2023 | Student & Fellows Scholars' Day | Judge (04/24/2023) |
| 2022 | Student & Fellows Scholars' Day | Judge (04/18/2022) |
| 2021 - current | Research and Innovation Strategy Council | Member |
| 2012 - 2013 | Research Committee | Member and Organizer of Abstracts Compilation and Judging |
| 2011 - current | Ph.D. Faculty Committee | Member |
| 2011 - 2011 | Ph.D. Curriculum Committee | Member |

Other Community Service

| Dates | Organization Name | Role |
|-------------|--|------------------------|
| 2016 - 2021 | Boy Scout Troop 18; Atlanta Area Council; Atlanta, GA | Advancement Committee |
| 2014 - 2017 | Science Fair at Druid Hills Middle School; Atlanta, GA | Director and Organizer |

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| 2014 - 2014 | Science Olympiad DeKalb County; Atlanta, GA | Parent Coach |
| 2010 - 2014 | Cub Scout Pack 6; Atlanta Area Council; Atlanta, GA | Den Leader |
| 2008 - 2008 | 2008 Intel Science and Engineering Science Fair (Georgia World Congress Center, Atlanta, GA) | Volunteer Judge for the American Statistical Association (ASA) |

Prior Service at Other Universities

| Dates | Organization Name | Role |
|-------------|--|---|
| 2009 - 2011 | Center for Advanced Brain Imaging (CABI) - Georgia Institute of Technology/Georgia State University - Institutional Review Board (IRB) | Member |
| 2004 - 2005 | Georgia Tech Research Institute (GTRI) Mentor-Mentee Program (FY05) | Senior Mentor to Amy Cook |
| 2002 - 2005 | Georgia Tech Institute of Technology Faculty Council | Georgia Tech Research Institute (GTRI) Representative |
| 2002 - 2004 | Georgia Tech Research Institute (GTRI) - AIST Guidance Council | Member |
| 1998 - 1998 | Georgia Tech Research Institute (GTRI) Career Fair | Speaker and Volunteer |
| 1997 - 2003 | Georgia Tech Research Institute (GTRI) Law Enforcement and Public Safety Initiative Development Group | Primary Member |
| 1997 - 1999 | Georgia Tech Research Institute (GTRI) Learning Technologies Initiative Development Group | Primary Member |
| 1996 - 1998 | Georgia Tech Test and Evaluation Research and Education Center | Member |
| 1996 - 1998 | Georgia Tech Society of Women Engineers - Female High School Student Outreach (Spring 1996, 1997, 1998) | Speaker and Volunteer |