

MICHAEL DAVID WIRTH, MSPH, PhD, FACE Assistant Professor on the Tenure Track

***Curriculum Vitae
College of Nursing
Arnold School of Public Health
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Education

- 2012 **Ph.D., Epidemiology**, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, Columbia, SC. Dissertation: Breast Cancer and Cortisol Secretion in Relation to the *PER3* VNTR, Chronotype, and Sleep (GPA=4.0)
- 2009 **M.S.P.H., Epidemiology**, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, Columbia, SC. Master's Thesis: A Study of Shift Working Police Officers from Buffalo (GPA=4.0).
- 2007 **B.S., Biology major, Environmental Biology minor**, Wingate University, Wingate, NC, Honors Trustee Scholarship to Wingate Sciences Program (GPA=3.9).
- 2006 **National Science Foundation Molecular and Cellular Bioscience REU Program**, Wadsworth Center, Albany, NY. Research Mentor – Dr. April Burch, Research Project - Identify putative client proteins in Hsp90 in infected cells at various times with or without inhibitors through immunoprecipitations, and monitor localization of co-chaperones in cells treated with an inhibitor by immunofluorescence microscopy.

Research Interests

Circadian disruption including shift work, clock gene polymorphisms, sleep disruption, diurnal preference, and melatonin and cortisol secretion; cancer epidemiology; the Dietary Inflammatory Index with respect to shift work and chronic disease; occupational epidemiology; cancer screening; health disparities

Academic and Research History

- 2017-Present **Assistant Professor (Previously a Research Assistant Professor prior to 2020)**, College of Nursing: Work emphasized: teaching online graduate courses, collaborating with College of Nursing faculty in drafting grant proposals, publishing research papers, and guest lecturing. Member of the Cancer Survivorship Center at the College of Nursing. Affiliate Member of the Nutrition Consortium at the Arnold School of Public Health.
- 2014-2018 **Director of Research and Development**, Connecting Health Innovations (CHI) LLC, Columbia, SC (in joint appointment with USC). CHI is a relatively new company with the express intention of translating research findings to places of clinical relevance and public health need through commercializing research tools for use in clinical and public health settings. Work emphasized: working with 'app' developers to create mobile and web-based applications, publishing

research papers, drafting grant proposals, and developing posters/presentations for scientific meetings.

- 2012–Present **Assistant Professor (Previously a Research Assistant Professor prior to 2020)**, Department of Epidemiology and Biostatistics and Cancer Prevention and Control Program, Arnold School of Public Health, University of South Carolina, Columbia, SC (2014–Present). **Post-Doctoral Fellow**, Cancer Prevention and Control Program (2012–2014). Work emphasized: publishing research papers, drafting grant proposals, developing posters/presentations for scientific meetings, guest lecturing, mentoring graduate students, and teaching courses.
- 2007 – 2012 **Graduate Research Assistant under Dr. James Burch, Dr. Robin Puett, Dr. James Hébert and Tom Hurley**, Cancer Prevention and Control Program, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, Columbia, SC. Work emphasized: assisting with data collection, statistical analyses, and development of manuscripts and posters for presentation in addition to my masters and dissertation work.

Peer-Reviewed Publications (*second author when the first author was a mentored student; ‡ represents senior authorship)

1. Sheng J, Lei H, Wu HS, Abshire DA, **Wirth MD**, Heiney SP. Physical Activity and Breast Cancer Prevention among Chinese American Women: A Qualitative Descriptive Study. *Qualitative Health Research* 2023 (in press).
2. DiNatale JC, Azarmanesh D, Hébert JR, **Wirth MD**, Pearlman J, Crowe-White KM. Relationship Between Non-Energy Adjusted and Energy-Adjusted Dietary Inflammatory Index and the Healthy Eating Index-2015: an Analysis of the National Health and Nutrition Examination Survey (NHANES) 2015–2018. *Annals of Medicine* (in press).
3. Dubois K, Blake CE, Rudisill C, Harrison SE, **Wirth MD**, Hébert JR. Ulcerative Colitis is Associated with Diet-related Inflammation and Physical Activity in The IBD Partners E-cohort. *Inflammatory Bowel Diseases* 2023 (in press).
4. Silva AR, Guandalini VR, Pereira TS, Zhao L, **Wirth MD**, Hébert JR, Fernandes GA, Assumpção PP, Barbosa MS, Curado MP. Association between Dietary Inflammatory Index and Gastric Adenocarcinoma: A Multicenter Case-Control Study in Brazil. *Nutrients* 2023 (in press).
5. Shieh A, Karlamangla AS, Huang MH, **Wirth MD**, Hébert JR, Greendale GA. Dietary Inflammatory Index and Fractures in Midlife Women: Study of Women’s Health Across the Nation. *The Journal of Clinical Endocrinology & Metabolism* 2023 (PMID: 36780235, EPUB ahead of print).
6. **Wirth MD**, Meyer J, Jessup A, Dawson RM. Barriers and Facilitators of Diet, Physical Activity Levels, and Sleep among Nursing Undergraduates and Early-Career Nurses: A Qualitative Descriptive Study. *American Journal of Health Promotion* 2023; 37(6): 821–829 (PMID: 37263962).
7. Ho FK, **Wirth MD**, Parra-Soto S, Boonpor J, Zhou Z, Petermann-Rocha F, Nakada S, Livingstone KM, Mathers JC, Pell JP, Hébert JR, Celis-Morales C. Dose-response Associations of Dietary Inflammatory Potential with Health Outcomes: A Prospective Cohort Study of 198,265 UK Biobank Participants. *Current Problems in Cardiology* 2023; 48(9): 1–15 (PMID: 37121456).
8. Sheng J, Abshire DA, Heiney SP, Wu HS, **Wirth MD**‡. Sociodemographic, Health-related, and Acculturation Determinants of Physical Activity Participation Among Asian American Women. *Preventive Medicine Reports* 2023; 33(2023): 1–8 (PMCID: PMC10221869).
9. Wright PJ, Corbet CF, Dawson RM, **Wirth MD**, Pinto BM. Fitness Assessments of Women with Polycystic Ovary Syndrome: A Process Feasibility Study. *Clinical and Experimental Obstetrics & Gynecology* 2023; 50(4): 1–10.

10. Nevels TL, **Wirth MD***, JP Ginsberg, McLain AC, Burch JB. The Role of Sleep and Heart Rate Variability in Metabolic Syndrome: Evidence from the Midlife in the United States (MIDUS II) Study. *Sleep* 2023; 46(5): 1-11 (PMCID: PMC10171632).
11. Everhart KC, Donevant SB, Iskersky VN, **Wirth MD**, Dail RB. Case Comparison of Preterm Infant Stability During Packed Red Blood Cell Transfusions. *Nursing Research* 2023; 72(4): 301-309 (PMID: 37350698).
12. Petermann-Rocha F, **Wirth MD**, Boonpor J, Parra-Soto S, Zhou Z, Mathers J, Livingstone KM, Forrest E, Pell JP, Ho FK, Hébert JR, Celis-Morales C. Associations between an Inflammatory Diet Index and Severe Non-alcoholic Fatty Liver Disease: A Prospective Study of 171,544 UK Biobank Participants. *BMC Medicine* 2023; 21(1): 1-9 (PMCID: PMC10071692).
13. Everhart KC, Iskersky VN, Donevant SB, **Wirth MD**, Dail RB. Pathogenesis of Necrotizing Enterocolitis in Preterm Infants: An Adaptation of Neuman's Systems Theory. *Nursing Science Quarterly* 2023; 36(2): 152-157 (PMID: 36994958).
14. Zhao L, **Wirth MD***, Petermann-Rocha, Parra-Soto S, Mathers JC, Pell JP, Ho FK, Celis-Morales CA, Hébert JR. Associations between the Dietary Inflammatory Index and COVID-19 Outcomes in the UK Biobank Cohort. *Nutrients* 2023; 15(4): 1-12 (PMCID: PMC9959636).
15. ET Farrell, **MD Wirth***, McLain AC, Hurley TG, Shook R, Hand G, Hébert JR, Blair SN. Associations between the Dietary Inflammatory Index and Sleep Metrics in the Energy Balance Study (EBS). *Nutrients* 2023; 15(2):1-15 (PMCID: PMC9863135).
16. Turner-McGrievy GM, **Wirth MD**, Bernhart BA, Aydin H. The Fasting and Shifted Timing (FAST) of Eating Study: A Pilot Feasibility Randomized Crossover Intervention Assessing the Acceptability of Three Different Fasting Diet Approaches. *Appetite* 2022; 176(2022): 1-7 (EPUB ahead of print, PMID: 35716852).
17. Park SY, Lozano CP, Shvetsov YB, Boushey CJ, **Wirth MD**, Shivappa N, Hébert JR, Haiman CA, Wilkens LR, Le Marchand L. Change in the inflammatory potential of diet over 10 years and subsequent mortality: the Multiethnic Cohort Study. *British Journal of Nutrition* 2022; 2022: 1-8 (PMCID: PMC9547033).
18. **Wirth MD**, Liu J, Wallace MK, McLain AC, Turner-McGrievy GM, Davis JE, Ryan N, Hébert JR. Dietary Inflammatory Index and Sleep Quality and Duration among Pregnant Women with Overweight or Obesity. *Sleep* 2022; 45(12): 1-10 (PMCID: PMC9742888).
19. Sheng J, Abshire DA, Heiney SP, **Wirth MD†**. Acculturation, Physical Activity, and Metabolic Syndrome in Asian-American Adults. *Journal of Transcultural Nursing* 2022; 33(6): 675-684 (PMID: 35924549).
20. Corrêa CR, da Costa BGG, Silva KS, Shivappa N, **Wirth MD**, Hébert JR, Nunes EA. A higher energy-adjusted dietary inflammatory index is positively associated with total and visceral body fat in young male subjects. *Journal of Human Nutrition and Dietetics* 2022; 35(6): 1136-1150 (PMID: 3537488).
21. **Wirth MD**, Fekedulegn D, Andrew ME, McLain AC, Burch JB, Davis JE, Hébert JR, Violanti J. Longitudinal and Cross-sectional Associations between the Dietary Inflammatory Index and Objectively and Subjectively Measured Sleep among Police Officers. *Journal of Sleep Research* 2022; 31(4): 1-9 (PMCID: PMC9240102).
22. Everhart KC, Donevant SB, Iskersky VN, **Wirth MD**, Dail RB. Examining Practice Variation Used for Packed Red Blood Cell Transfusions for Preterm Infants in Neonatal Intensive Care Units Across the United States. *Research and Reports in Neonatology* 2022; 2022 (12): 43-48.
23. Horton Dias CE, Dawson RM, Harris DM, **Wirth MD**, Abshire DA. Foods and Beverages Available to Nurses in Hospital Cafeterias, Vending Machines, and Gift Shops. *American Journal of Health Promotion* 2022; 36(7): 1133-1141 (PMID: 35417265).
24. Ortaglia A, Stansbury ML, **Wirth MD**, Sui X, Bottai M. Quantile Differences in the Age Related Decline in Cardiorespiratory Fitness between Sexes in Adults without Type 2 Diabetes in the United States. *Mayo Clinic Proceedings: Innovations, Quality & Outcomes* 2022; 6(4): 302-310 (PMCID: PMC9234339).
25. Truman SC, **Wirth MD***, Adams SA, Turner-McGrievy GM, Reiss KE, Hébert JR. Meal Timing, Distribution of Macronutrients, and Inflammation among African-American Women: A Cross-Sectional Study. *Chronobiology International* 2022; 39(7): 976-983 (PMCID: PMC9177623).

26. Lozano CP, Wilkens LR, Shvetsov YB, Maskarinec G, Park SY, Shepherd JA, Boushey CJ, Hébert JR, **Wirth MD**, Ernst T, Randolph T, Lim U, Lampe JW, Le Marchand L, Hullar MAJ. Associations of the Dietary Inflammatory Index with total adiposity and ectopic fat through the gut microbiota, lipopolysaccharides, and C-reactive protein in the Multiethnic Cohort-Adiposity Phenotype Study. *The American Journal of Clinical Nutrition* 2022; 115(5): 1344-1356 (PMCID: PMC9071464).
27. Eustis SJ, McCall MW, Murphy EA, **Wirth MD**. Association Between Gastrointestinal Symptoms and Depression in a Representative Sample of Adults in the United States: Findings from National Health and Nutrition Examination Survey (2005-2016). *Journal of the Academy of Consultation-Liaison Psychiatry* 2022; 63(3): 268-279 (PMID: 34461293).
28. Attlee A, Saravanan C, Shivappa N, **Wirth MD**, Aljaberi M, Alkaabi R, Bataineh MF, Hébert JR. Higher Dietary Inflammatory Index Scores are Associated with Stress and Anxiety in Dormitory-residing Females University Students in the United Arab Emirates. *Frontiers in Nutrition* 2022; 10(9): 1-11 (PMCID: PMC8961416).
29. Bernhart JA, Turner-McGrievy GM, **Wirth MD**, Shivappa N, Hébert JR. The IMAGINE Intervention: Impacting Physical Activity, Body Fat, Body Mass Index, and Dietary Inflammatory Index. *Translational Journal of the ACSM* 2022; 7(1): 1-6 (PCMID: PMC9272997).
30. Aljahdali AA, Peterson KE, Cantoral A, Ruiz-Narvaez E, Tellez-Rojo MM, Kim HM, Hébert JR, **Wirth MD**, Torres-Olascoago LA, Shivappa N, Baylin A. Diet Quality Scores and Cardiometabolic Risk Factors in Mexican Children and Adolescents: A Longitudinal Analysis. *Nutrients* 2022; 14(4): 1-19 (PMCID: PMC8878155).
31. Wright PJ, Corbett CL, Pinto BM, Dawson R, **Wirth MD**, Legro RS. The Impact of Exercise Perceptions and Depressive Symptoms on Polycystic Ovary Syndrome-Specific Health-Related Quality-of-Life. *Women's Health* 2021; 17: 1-10 (PMCID: PMC8689599).
32. Ortaglia A, McDonald SM, **Wirth MD**, Sui X, Bottai M. Differential Age-Related Declines in Cardiorespiratory Fitness among People with and without Type 2 Diabetes Mellitus. *Mayo Clinic Proceedings: Innovations, Quality & Outcomes* 2021; 5(4): 743-752 (PMCID: PMC8327133).
33. Wright PJ, Corbett CF, Pinto BM, Dawson R, **Wirth MD**. Resistance Training as Therapeutic Management in Women with PCOS: What is the Evidence? *International Journal of Exercise Science* 2021; 14(3): 840-854 (PMCID: PMC8439708).
34. Andreeva VA, Péneau S, Julia C, Shivappa N, Hébert JR, **Wirth MD**, Touvier M, Hercberg S, Galan P, Jesse-Guyot E. The Inflammatory Potential of Diet is Prospectively Associated with Subjective Hearing Loss. *European Journal of Nutrition* 2021; 60(7): 3669-3678 (PMID: 33738534).
35. **Wirth MD**, Zhao L, Turner-McGrievy GM, Ortaglia A. Associations between Fasting Duration, Timing of First and Last Meal, and Cardiometabolic Endpoints in the National Health and Nutrition Examination Survey. *Nutrients* 2021; 13(8): 1-13 (PMCID: PMC8397975).
36. Park SY, Boushey CJ, Shvetsov YB, **Wirth MD**, Shivappa N, Hébert JR, Haiman CA, Wilkens LR, Le Marchand L. Diet Quality and Risk of Lung Cancer in the Multiethnic Cohort Study. *Nutrients* 2021; 13(5):1-10 (PMCID: PMC8151689).
37. Wallace MK, Shivappa N, **Wirth MD**, Hébert JR, Huston-Presley L, Alvarado F, Hauguel-Demouzon S, Catalano PM. Longitudinal Assessment of Relationships between Health Behaviors and IL-6 in Overweight and Obese Pregnancy. *Biological Research for Nursing* 2021; 23(3): 481-487 (PMCID: PMC8455950).
38. Horton Dias C, Dawson RM, Abshire D, Harris D, **Wirth MD**. Free Food at Work: A Concept Analysis. *Workplace Health & Safety* 2021; 69(6): 277-289 (PMID: 33845694).
39. Nevels TL, Burch JB, **Wirth MD**, Gingsberg JP, McLain, Andrew ME, Allison P, Fekedulegn D, Violanti JM. Shift Work Adaptation Among Police Officers: The BCOPS Study. *Chronobiology International* 2021; 38(6): 907-923 (PMCID: PMC8262273).

40. Holst MM, **Wirth MD***, Allison P, Burch JB, Andrew ME, Fekedulegn D, Hussey J, Charles LE, Violanti JM. An Analysis of Shiftwork and Self-reported Depressive Symptoms in a Police Cohort from Buffalo, New York. *Chronobiology International* 2021; 38(6): 830-838 (PMID: 33706643).
41. Malcomson FC, Willis ND, McCallum, Xie L, Shivappa N, **Wirth MD**, Hébert JR, Kocaadam B, Özturan A, Kelly S, Bradburn DM, Belshaw NJ, Jounson IT, Mathers JC. Diet-associated Inflammation Modulates Markers of Inflammation and WNT Signaling in the Rectal Mucosa, and the Response to Dietary Supplementation with Dietary Fibre. *Cancer Prevention Research* 2021; 14(3): 337-346 (PMID: 33115783).
42. Kase BE, Liu J, **Wirth MD**, Shivappa N, Hébert JR. Associations Between Dietary Inflammatory Index and Sleep Problems Among Adults in The United States, NHANES 2005-2016. *Sleep Health* 2021; 7(2): 273-280 (PMID: 33071202).
43. Jayanama K, Theou O, Godin J, Cahill L, Shivappa N, Hébert JR, **Wirth MD**, Park YM, Fung TT, Rockwood K. Relationship between Diet Quality Scores and the Risk of Frailty and Mortality in Adults across a Wide Age Spectrum. *BMC Medicine* 2021; 19(64): 1-13 (PMCID: PMC7962372).
44. Everhart K, Donevant SB, **Wirth MD**, Dail RB. Examining Etiological Pathways to Necrotizing Enterocolitis in Very Preterm Infants. *Journal of Neonatal Nursing* 2021; 27(2): 77-81.
45. Sethna CB, Alanko D, **Wirth MD**, Shivappa N, Hébert JR, Khan S, Sen S. Dietary Inflammation and Cardiometabolic Health in Adolescents. *Pediatric Obesity* 2021; 16(2): 1-10 (PMID: 32776714).
46. Turner-McGrievy GM, **Wirth MD**, Hill KL, Dear ER, Hébert JR. Examining Commonalities and Differences in Food Groups, Nutrients, and Diet Quality among Popular Diets. *Clinical Nutrition ESPEN* 2021; 41: 377-385 (PMID: 33487293).
47. **Wirth MD**, Jessup A, Turner-McGrievy GM, Shivappa N, Hurley TG, Hébert JR. Changes in Dietary Inflammatory Potential Predict Changes in Sleep Quality Metrics, but Not Sleep Duration. *Sleep* 2020; 43(11): 1-9 (PMCID: PMC7658634).
48. Betanzos-Robledo L, Rodríguez-Carmona Y, Contreras-Manzano A, Lamadrid-Figueroa H, Jansen E, Tellez-Rojo MM, Perng W, Peterson K, Hébert JR, Shivappa N, **Wirth MD**, Cantoral-Preciado A. Greater Cumulative Exposure to a Pro-inflammatory Diet Is Associated with Higher Metabolic Syndrome Score and Blood Pressure in Young Mexican Adults. *Nutrition Research* 2020; 8: 81-89 (PMID: 32942060)
49. Babatunde O, Adams SA, Truman S, Sercy E, Murphy EA, Khan S, Hurley TG, **Wirth MD**, Choi SK, Johnson H, Hébert JR. The Impact of a Randomized Dietary and Physical Activity Intervention on Chronic Inflammation Among Obese African-American Women. *Women & Health* 2020; 60(7): 792-805 (PMCID: PMC7332405).
50. Ortaglia A, McDonald SM, Supino C, **Wirth MD**, Sui X, Bottai M. Differential Relationships Between Waist Circumference and Cardiorespiratory Fitness among people with and without type 2 Diabetes. *Preventive Medicine Reports* 2020; 18(101083): 1-7.
51. Hanson C, Rifas-Shiman SL, Shivappa N, **Wirth MD**, Hébert JR, Gold DR, Camargo CA, Sen S, Sordillo JE, Oken E, Litonjua AA. Associations of Prenatal Dietary Inflammatory Potential with Childhood Respiratory Outcomes in Project Viva. *The Journal of Allergy and Clinical Immunology: In Practice* 2020; 8(3): 945-952 (PMCID: PMC7064380).
52. **Wirth MD**, Shivappa N, Khan S, Vyas S, Beresford L, Sofge J, Hébert JR. Impact of a 3-month Anti-inflammatory Dietary Intervention Focusing on Watermelon on Body Habitus, Inflammation, and Metabolic Markers: A Pilot Study. *Nutrition and Metabolic Insights* 2020; 13:1-10 (PMCID: PMC6958645).
53. **Wirth MD**, Robinson C, Murphy EA, Shivappa N, Hébert JR. The Dietary Inflammatory Index is Associated with Gastrointestinal Infection Symptoms in the National Health and Nutrition Examination Survey. *International Journal of Food Sciences and Nutrition* 2020; 71(1): 106-115 (PMID: 31106619).
54. Brick JM, Dail RB, Priode K, **Wirth MD**, Yamada R. A Practice Change to Eliminate Prophylactic Antibiotics for Elective Percutaneous Nephrostomy Tube Exchanges in Low-Risk Outpatients: A Retrospective Review on Risk for Infection. *Journal of Radiology Nursing* 2019; 38(4): 241-9.

55. Guinter MA, Merchant AT, Tabung FK, **Wirth MD**, Shivappa N, Hurley TG, Hébert JR, Sui X, Blair SN, Steck SE. Adiposity Does Not Modify the Effect of the Dietary Inflammatory Potential on Type 2 Diabetes Incidence among a Prospective Cohort of Men. *Journal of Nutrition and Intermediary Metabolism* 2019; 16(2019): 1-7.
56. Ryu S, Shivappa N, Veronase N, Kang M, Mann JR, Hébert JR, **Wirth MD**, Loprinzi PD. Secular Trends in Dietary Inflammatory Index among Adults in the United States, 1999-2014. *European Journal of Clinical Nutrition* 2019; 73(10): 1343-1351 (PMID: 30542148).
57. Lohman MC, Resciniti NV, **Wirth MD**, Shivappa N, Hébert JR. Obesity, Dietary inflammation, and Frailty among Older Adults: Evidence from the National Health and Nutrition Examination Survey. *Journal of Nutrition in Gerontology and Geriatrics* 2019; 38(1): 18-32 (PMID: 30849025)
58. **Wirth MD**, Franco R, Robb SW, Daniels K, Susko K, Hudson MF, O'Rourke MA. Randomized Controlled Trial of a 4-Week Mindfulness Intervention among Cancer Survivors Compared to a Breathing Control. *Cancer Investigation* 2019; 37(4-5): 227-232 (PMID: 31198066).
59. Zheng J, **Wirth MD***, Merchant AT, Zhang J, Shivappa N, Stolzenberg-Solomon, Hébert JR, Steck SE. Inflammatory Potential of Diet, Inflammation-related Lifestyle Factors and Risk of Pancreatic Cancer: Results from the NIH-AARP Diet and Health Study. *Cancer Epidemiology, Biomarkers & Prevention* 2019; 28(7): 1266-1270 (PMCID: PMC6606345).
60. Holst MH, **Wirth MD***, Mnatsakanova A, Burch JB, Charles LE, Tinney-Zara C, Fekedulegn D, Andrew ME, Hartley TA, Violanti JM. Shift Work and Biomarkers of Subclinical Cardiovascular Disease: The BCOPS Study. *Journal of Occupational and Environmental Medicine* 2019; 61(5): 391-396 (PMCID: PMC6610651).
61. Robb SW, Haslam A, **Wirth MD**, Gay JL, Middleton L, Healy M, Hébert JR. Relationship between Meditation and Waking Salivary Cortisol Secretion among Long-term MBSR. *Complementary Medicine Research* 2019; 26(2): 101-109 (PMID: 30893675).
62. Crimarco A, Turner-McGrievy GM, **Wirth MD†**. The Effects of Meal-timing on Self-rated Hunger and Dietary Inflammatory Potential among a Sample of College Students. *Journal of American College Health* 2019; 67(4): 328-337 (PMID: 29979952).
63. Shivappa N, **Wirth MD**, Murphy EA, Hurley TG, Hébert JR. Association between the Dietary Inflammatory Index (DII) and urinary enterolignans and C-reactive protein from the National Health and Nutrition Examination Survey-2003-2008. *European Journal of Nutrition* 2019; 58(2): 797-805 (PMID: 29675557).
64. Turner-McGrievy GM, Schoffman DE, Singletary C, Wright M, Crimarco A, **Wirth MD**, Shivappa N, Mandes T, West DS, Wilcox S, Drenowatz C, Hester A, McGrievy M. Using Commercial Physical Activity Trackers for Health Promotion Research: Four Case Studies. *Health Promotion Practice* 2019; 20(3): 381-389 (PMCID: PMC6854681).
65. Turner-McGrievy GM, **Wirth MD**, Shivappa N, Dunn C, Crimarco A, Hurley TG, West D, Hussey J, Hébert JR. Impact of a 12-month Inflammation Management Intervention on the Dietary Inflammatory Index, inflammation, and lipids. *Clinical Nutrition ESPEN* 2019; 30: 42-51 (PMCID: PMC6435295)
66. Resciniti NV, Lohman MC, **Wirth MD**, Shivappa N, Hébert JR. Dietary Inflammatory Index, Pre-Frailty and Frailty among Older US Adults: Evidence from the National Health and Nutrition Examination Survey, 2007-2014. *Journal of Nutrition Health and Aging* 2019; 23(4): 323-239 (PMID: 30932130)
67. Hébert JR, Shivappa N, **Wirth MD**, Hussey JR, Hurley TG. Perspective: The Dietary Inflammatory Index (DII®): Lessons Learned, Improvements Made and Future Directions. *Advances in Nutrition* 2019; 10(2): 185-195 (PMCID: PMC6416047).
68. McMahan DM, Burch JB, Hébert JR, Hardin JW, **Wirth MD**, Youngstedt SD, Shivappa N, Jacobsen SJ, Caan B, Van Den Eeden, SK. Diet-Related Inflammation and Risk of Prostate Cancer in the California Men's Health Study. *Annals of Epidemiology* 2019; 29: 30-38 (PMCID: PMC6388401).
69. McMahan DM, Burch JB, Youngstedt SD, **Wirth MD**, Hardin JW, Hurley TG, Blair SN, Hand GA, Shook RP, Drenowatz C, Burgess S, Hébert JR. Relationships between Chronotype, Social Jetlag, Sleep, Obesity and

- Blood Pressure in Healthy Young Adults. *Chronobiology International* 2019; 36(4) 493-509 (PMID: 30663440).
70. Crimarco A, Turner-McGrievy GM, **Wirth MD**, Mandes T, Shivappa N, Dunn C, Vyas S, Hurley TG, West D, Hébert JR. Baseline Markers of Inflammation, Lipids, Glucose, and Dietary Inflammatory Index Scores Do Not Differ between Adults Willing to Participate in an Intensive Inflammation Reduction Intervention and Those Who Do Not. *Nutrition and Health* 2019; 25(1): 9-19 (PMID: 30229691).
 71. Mazidi M, Shivappa N, **Wirth MD**, Hébert JR, Mikhailidis DP, Rizzo M, Kengne AP, Banach M. Dietary Inflammatory Index and Cardiometabolic Risk in US Adults. *Atherosclerosis* 2018; 276: 23-27 (PMID: 30015256).
 72. Park S, Kang M, Wilkens LR, Shvetsov YB, Harmon BE, Shivappa N, **Wirth MD**, Hébert JR, Haiman CA, Marchand LL, Boushey CJ. The Dietary Inflammatory Index and All-cause Cardiovascular Disease, and Cancer Mortality in the Multiethnic Cohort Study. *Nutrients* 2018; 10(12): 1-12 (PMCID: PMC6315679).
 73. Mazidi M, Shivappa N, **Wirth MD**, Hébert JR, Kengne AP. Diet with Greater Inflammatory Potential is Associated with Higher Prevalence of Fatty Liver among US Adults. *European Journal of Nutrition* 2018; 72(4): 581-586 (PMID: 30451987).
 74. Ellingson LD, Meyer JD, Shook RP, Dixon PM, Hand GA, **Wirth MD**, Paluch AE, Burgess S, Hébert JR, Blair SN. Changes in Sedentary Time are Associated with Changes in Mental Wellbeing Over 1 Year in Young Adults. *Preventive Medicine Reports* 2018; 11: 274-281 (PMCID: PMC6082791).
 75. Khan S, **Wirth MD***, Ortaglia A, Alvarado C, Shivappa N, Hurley TG, Hébert JR. Design, Development and Construct Validation of the Children's Dietary Inflammatory Index. *Nutrients* 2018; 10(8): 1-14 (PMCID: PMC6115957).
 76. Kim Y, Chen J, **Wirth MD**, Shivappa N, Hébert JR. Dietary Inflammatory Index Scores are Associated with Lower Glycemic Index Scores among College Students. *Nutrients* 2018; 10(2): 1-12 (PMCID: PMC5852758).
 77. Shivappa N, Godos J, Hébert JR, **Wirth MD**, Piuri G, Speciani A, Grosso G. Dietary Inflammatory Index and Cardiovascular Risk and Mortality --- a Meta-analysis. *Nutrients* 2018; 10(2): 1-15 (PMCID: PMC5852776).
 78. Mazidi M, Shivappa N, **Wirth MD**, Hébert JR, Kengne AP. Greater Dietary Inflammatory Index Score Is Associated with Higher Likelihood of Chronic Kidney Disease. *British Journal of Nutrition* 2018; 120(2):204-209 (PMID: 29947319).
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 80. Edwards MK, Shivappa M, Mann JR, Hébert JR, **Wirth MD**, Loprinzi PD. Physical Activity and Dietary Inflammatory Index on Mortality Risk. *The Physician and Sportsmedicine* 2018; 46(2): 249-254 (PMID: 29463180).
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142. **Wirth MD**, Burch J, Violanti J, Burchfiel C, Fekedulegn D, Andrew M, Zhang H, Miller DB, Hébert JR, Vena JE. Shiftwork duration and the awakening cortisol response among police officers. *Chronobiology International* 2011; 28:446-457 (PMCID: PMC3655701).

Non-Refereed Publications/Letters to the Editor

143. West SJ, Dawson RM, **Wirth MD**, Catledge, C. Obstructive Sleep Apnea in Adults. *American Nurse Today* 2020 (Online Publication Only).
144. Hébert JR, Shivappa N, **Wirth MD**, Hussey JR, Hurley TG. Reply to FJB van Duijnhoven et al. *Advances in Nutrition* 2020; 11(1) 179-180 (PMCID: PMC6964986).
145. Frith E, Shivappa N, Mann JR, Hébert JR, **Wirth MD**, Loprinzi PD. Potential Confounding in a Study of Dietary Inflammatory Index and Cognitive Function. *British Journal of Nutrition* 2018; 120(9): 1078-1079 (PMID: 30220257).
146. Steck SE, Shivappa N, Tabung FK, Harmon BE, **Wirth MD**, Hurley TG, Hébert JR. The Dietary Inflammatory Index: A New Tool for Assessing Diet Quality Based on Inflammatory Potential. *The Digest: The Research Dietetic Practice Group of the Academy of Nutrition and Dietetics* 2014; 49:1-9 (non-Refereed publication).
147. Hébert JR, Shivappa N, Tabung F, Steck SE, **Wirth MD**, Hurley TG. On the use of the dietary inflammatory index in relation to low-grade inflammation and markers of glucose metabolism in the Cohort study on Diabetes and Atherosclerosis Maastricht (CODAM) and the Hoorn study. *American Journal of Clinical Nutrition* 2014; 99:1520-1520 (PMID: 24847105, letter to the editor).

Invited Book Chapters

1. **Wirth MD**, Burch JB. Inflammatory Potential of Diet: Role of Circadian Rhythms and Sleep. 2022. In: Diet, Inflammation, and Health. Elsevier, Cambridge, MA, USA.
2. **Wirth MD**, Burch JB, Vena JE. Cancer incidence among police officers. 2014. In: Dying for the Job: Police Work Exposure and Health. Charles C Thomas, Springfield, Illinois, USA.
3. Baughman P, Fekedulegn D, Charles LE, Gu JK, Ma C, Violanti JM, **Wirth MD**, Mnatsakanova A, Hartley TA, Andrew ME, Burchfiel CM. Health Hazards of Shift Work. 2014. In: Dying for the Job: Police Work Exposure and Health. Charles C Thomas, Springfield, Illinois, USA.
4. Burch JB, **Wirth MD**, Yang X. Disruption of circadian rhythms and sleep: role in carcinogenesis. 2013. In: Kushida CA (Ed), Encyclopedia of Sleep. Elsevier, Oxford, UK.

Conference Oral Presentations and First/Second/Senior Author Posters (*second author when the first author was a mentored student; ‡ represents senior authorship)

1. Wirth MD, Turner-McGrievy GM, Shivappa N, Murphy EA, Hébert JR. Interaction between Meal-timing and Dietary Inflammatory Potential on Cardiometabolic Endpoints. *American College of Epidemiology, September 2023 (poster presentation, virtual)*.
2. **Wirth MD**, ET Farrell, RM Dawson, JW Harden, Turner-McGrievy GM. Dietary Quality and Timing across Days and throughout a Workday Stratified by Shiftwork Status among Nurses. *Society for Epidemiologic Research Annual Conference, June 2023 (poster presentation, Portland, OR)*.
3. Farrell ET, Dawson RM, Truner-McGrievy GM, **Wirth MD**‡. Shift-Working Investigation of Fasting and Timing (SHIFT) Study: Assessing Nurses' Dietary Quality, Fasting Duration, and Feasibility of Completing a 7-day Dietary Recall. *South Carolina Public Health Association, March 2023 (poster presentation, Myrtle Beach, SC)*. Also presented at the *University of South Carolina Nutrition Research Symposium, March 2023 (poster presentation, Columbia, SC)* and *Discover USC, March 2023 (poster presentation, Columbia, SC)*.
4. Epperly E, **Wirth MD***, Dawson RM. The Impact of Strength Training on Mental Health in Nursing Students During the COVID-19 Pandemic. *Discover USC Day, April 2022 (poster presentation, 2022)*.
5. Pepper S, **Wirth MD***, Dawson RM. The Relationship Between Work Engagement, Depression, Anxiety, and COVID-19 Anxiety in Physician Assistant Students. *Discover USC Day, April 2022 (poster presentation, 2022)*.

6. **Wirth MD**, Farrell ET, Dawson RM, Turner-McGrievy GM. A Comprehensive Assessment of Diet Timing and Quality among Nurses. *American College of Epidemiology, September 2022 (poster presentation, Scottsdale, AZ)*.
7. Farrell ET, **Wirth MD***, McLain AC, Hébert JR, Blair S. Associations between the Dietary Inflammatory Index and Sleep Metrics in the Energy Balance Study (EBS). *Nutrition Symposium (March, 2022) and Discover USC Day (April, 2022) at the University of South Carolina (poster presentation, Columbia, SC)*.
8. Beecroft J, **Wirth MD***, Corbett C. Assessing the Relationship Between Obesity and Cardiovascular Markers in Pregnant Women. *Association of Women's Health Obstetric and Neonatal Nurses, June 2022 (poster presentation, New Orleans, LA)*. Also presented at *College of Nursing, Research Scholarship Day, University of South Carolina, April 2022 (poster presentation, Columbia, South Carolina)* and *Discover USC Day at the University of South Carolina, April 2022 (poster presentation, Columbia, South Carolina)*.
9. Warren K, **Wirth MD***, Dail RB. Neonatal Transport of Very Low Birthweight Infants in South Carolina: Examining Morbidity and Mortality between Infants Born at Tertiary Facilities Compared to Community Hospitals. *Sigma Theta Tau International, July 2022 (poster presentation, Scotland)*. Also presented at the *College of Nursing, Research Scholarship Day, University of South Carolina, April 2022 (poster presentation, Columbia, South Carolina)*.
10. Becks K, Corbett C, **Wirth MD†**. Association between Cognitive Function and Income in Older Adults from the National Health and Nutrition Examination Survey. *College of Nursing, Research Scholarship Day, University of South Carolina, April 2022 (poster presentation, Columbia, South Carolina)*.
11. **Wirth MD**, Liu J, Wilcox S, Wallace MK, McLain AC, Turner-McGrievy GM, Davis JE, Ryan N, Hébert JR. Association between the Dietary Inflammatory Index and Sleep During Pregnancy. *American College of Epidemiology Annual Meeting, September 2021, Virtual (poster presentation)*.
12. Wright P, **Wirth MD**, Adams SA, Hébert JR. CRP as a Predictor of Depressive Symptoms in African Americans. *University of South Carolina Discover UofSC Day 2021 (poster presentation, Columbia, SC, virtual format)*
13. Sheng J, **Wirth MD***, Abshire D, Heiney SP, Adams S. Associations Between Consumer Behavior Habits and Dietary Inflammatory Potential. *Rising Stars of Research and Scholarship Invited Student Poster Program at Sigma Theta Tau International Honor's Society of Nursing's (Sigma's) 46th Biennial Convention, November 2021, (poster presentation, Indianapolis, Indiana)*.
14. James U, **Wirth MD***, Hébert JR. Associations Between Consumer Behavior Habits and Dietary Inflammatory Potential. *Rising Stars of Research and Scholarship Invited Student Poster Program at Sigma Theta Tau International Honor's Society of Nursing's (Sigma's) 46th Biennial Convention, November 2021, (poster presentation, Indianapolis, Indiana)*.
15. James U, **Wirth MD***, Hébert JR. Associations between Consumer Behavior Habits and Dietary Inflammatory Potential Using Data from the National Health and Nutrition Examination Survey (2005-2016). *University of South Carolina College of Nursing Research and Scholarship Day Month, April 2021, (oral presentation, virtual)*.
16. **Wirth MD**, Fekedulegn D, Andrew ME, McLain AC, Burch JB, Davis JE, Hébert JR, Violanti JM. Longitudinal and Cross-sectional Associations between the Dietary Inflammatory Index and Objectively and Subjectively Measured Sleep among Police Officers. *Society for Epidemiologic Research Conference, June 2021, San Diego (oral presentation, attended virtually)*.
17. Vidanapathirana ND, **Wirth MD***, Turner-McGrievy GM, Shivappa N, Hébert JR. The Association between Fasting Times and Metabolic and Inflammatory Biomarkers in the Inflammation Management Intervention (IMAGINE). *University of South Carolina 11th Annual Nutrition Research Symposium, April 2021, Columbia, SC (poster presentation, online format)*.
18. **Wirth MD**, Fekedulegn D, Andrew ME, McLain AC, Burch JB, Davis JE, Hébert JR, Violanti JM. Longitudinal and Cross-sectional Associations between the Dietary Inflammatory Index and Objectively and Subjectively Measured Sleep among Police Officers. *University of South Carolina 11th Annual Nutrition Research Symposium, April 2021, Columbia, SC (poster presentation, online format)*.

19. Dawson R, **Wirth MD**, Alleyne W. Relationship between Insulin Levels and Measures of Lung Function in Adolescent Children. *American Thoracic Society International Conference, May 2020, Philadelphia, PA (Poster presentation, canceled due to Coronavirus)*.
20. Long A, **Wirth MD***, Bernhart J, Turner-McGrievy GM. Perceptions and Barriers to Different Dietary Fasting Protocols within the Fasting and Shifted Timing of Eating Study. *University of South Carolina Discover USC, April 2020, Columbia, SC (Poster Presentation, canceled due to the Coronavirus)*.
21. James U, **Wirth MD***, Hébert JR. Associations between Consumer Behavior Habits and Dietary Inflammatory Potential Using Data from the National Health and Nutrition Examination Survey (2005-2016). *8th Annual University of South Carolina Nutrition Symposium, March 2020, Columbia, SC (Poster Presentation, canceled due to the Coronavirus)*.
22. Eustis S, McCall M, Bulsiewicz W, **Wirth MD**. Association between Dysbiosis and Depressive Symptoms using National Health and Nutrition Examination Survey data. *ASPEN 2020 Nutrition Science & Practice Conference, March 2020, Tampa, FL (Oral Presentation, canceled due to the Coronavirus)*
23. **Wirth MD**, Truman S, Adams SA, Turner-McGrievy GM, Reiss K, Hébert JR. Meal Timing, Distribution of Macronutrients, Inflammation, and BI-RADS Readings among African-American Women. *3rd NCI Symposium on Cancer Health Disparities, April 2020, Bethesda, MD (Poster Presentation, canceled due to the Coronavirus)*
24. **Wirth MD**, Truman S, Adams SA, Turner-McGrievy GM, Reiss K, Hébert JR. Meal Timing, Distribution of Macronutrients, and Inflammation among African-American Women. *Society for Epidemiological Research. May 2019, Minneapolis, MN (Poster Presentation)*.
25. **Wirth MD**, Jessup A, Turner-McGrievy, Shivappa N, Hébert JR. Associations between Changes in Diet Quality and Changes in Sleep over a 3-month Period. *Nutrition Symposium. March 2019, Columbia, SC (Oral Presentation)*.
26. **Wirth MD**, Franco R, Robb SW, Daniels K, Susko K, Hudson MF, O'Rourke MA. Randomized Controlled Trial of a 4-Week Mindfulness Intervention among Cancer Survivors. *The Greenville Health Sciences Research Showcase. April 2018, Greenville, SC (Poster)*.
27. Turner-McGrievy GM, **Wirth MD**, Shivappa N, West DS, Hurley TG, Hébert JR. Impact of a One Year Plant-based Diet Intervention on Diet and the Dietary Inflammatory Index. *The 7th International Congress of Vegetarian Nutrition. February 2018 Loma Linda, CA (Oral Presentation)*.
28. **Wirth MD**, Shivappa N, Hurley TG, Burch JB, Hébert JR. Association between the Dietary Inflammatory Index (DII) and depressive symptoms from the National Health and Nutrition Examination Survey. *Food & Nutrition Conference & Expo, October 2016, Boston, Massachusetts (Poster)*.
29. **Wirth MD**, Shivappa N, Davis L, Hurley TG, Ortaglia A, Drayton R, Blair SN, Hébert JR. The Dietary Inflammatory Index is Associated with Inflammatory Biomarkers among a Population of African Americans from South Carolina *Association for Cancer Research: The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved, November 2015, Atlanta, Georgia (Poster)*.
30. **Wirth MD**, Hébert JR, Brandt HM, Davis L, Davis B, Harmon BE, Hurley TG, Drayton R, Adams SA, Blair SN. Effects of the Healthy Eating and Active Living in the Spirit (HEALS) Educational and Behavioral Intervention on Inflammation among an African-American Faith Community. *American Association for Cancer Research: The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved, November 2014, San Antonio, Texas (Poster)*.
31. **Wirth MD**, Brandt HM, Dolinger HD, Hardin JW, Sharpe PA, Eberth JM. Associations between previous breast, cervical, or prostate cancer screenings and colorectal cancer screening adherence. *Center for Colon Cancer Research at the University of South Carolina, January 2014, Columbia, South Carolina (Poster)*.
32. **Wirth MD**, Blake CE, Hébert JR, Sui X, Blair SN. Chronic Weight Dissatisfaction Predicts Type 2 Diabetes Risk: The Aerobic Center Longitudinal Study. *19th Annual Diabetes Fall Symposium at the Medical University of South Carolina, September 2013, North Charleston, South Carolina (Poster)*.
33. **Wirth MD**, Adams SA, Davis L, Hurley TG, Davis B, Murphy EA, Shivappa N, Heiney SP, Blair SN, Hébert JR. The Effect of Physical Activity of Inflammation among a Church-Based Population of African Americans.

James E. Clyburn Health Disparities Lecture at the University of South Carolina, April 2013, Columbia, South Carolina (Poster).

34. **Wirth MD**, Burch JB, Steck SE, Hurley TG, Sarin R, Gupta PC, Hébert JR. Circadian Disruption Indicators and Breast Cancer Risk among Women in India. *International Society for Environmental Epidemiology, August 2012, Columbia, South Carolina (Oral Presentation).*
35. **Wirth MD**, Burch JB, Violanti J, Burchfiel C, Fekedulegn D, Andrew M, Zhang H, Miller DB, Vena J. Shift Work Duration and Patterns of Salivary Cortisol among Police Officers. *South Carolina Public Health Association, May 2010, Myrtle Beach, South Carolina (Oral Presentation).*
36. **Wirth MD**, Burch A. The Effects of Hsp90 Inhibitors on HSV-I Early Infection. *Alpha Chi National Convention, March 2007, San Antonio, Texas (Oral Presentation).*

Invited Presentations

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|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aug, 2022 | Special Libraries Association Annual Meeting, Concurrent Session Title “When things aren’t what they seem: food & agriculture misinformation & its impact on consumer behaviors”, presentation title “Dietary Patterns and Fads, How Healthy Are They?”, Charlotte, NC. |
| Oct, 2019 | Research Forum for the College of Nursing, University of South Carolina, “Failure to Reject the Null Hypothesis in Behavioral Interventions: Lessons Learned from Two Dietary Interventions”. |
| Apr, 2019 | Breathe Easier Club (community support group for survivors of lung cancer and their family hosted by Dr. Karen McDonnell), College of Nursing, University of South Carolina. |
| Oct, 2017 | Brownbag Seminar Series for the Department of Epidemiology and Biostatistics, University of South Carolina, “Development and Validation of Children’s Dietary Inflammatory Index (CDII)”, Columbia, SC. |
| Mar, 2016 | Colloquium Series at the Cancer Prevention and Control Program, University of South Carolina, “Diet-Associated Inflammation: Substrate for Mechanisms Underlying Cancer and Other Chronic Diseases”, Columbia, SC |
| Feb, 2016 | The College of Nursing’s Cancer Survivorship Center Research Forum, “Shift in Research Paradigms and Thought Processes, Past, Present, and Future”, Columbia, SC. |
| Mar, 2015 | On behalf of Connecting Health Innovations, LLC for Blue Cross Blue Shields Group Leader (Customer) Workshops, “The Dietary Inflammatory Index (DII), a Breakthrough Collaboration”, Charleston, SC. |
| Feb, 2015 | Colloquium Series at the Cancer Prevention and Control Program, University of South Carolina, “The Creation and Evolution of The Dietary Inflammatory Index”, Columbia, SC |
| Nov, 2014 | Colloquium Series at the Cancer Prevention and Control Program, University of South Carolina, “Health Impacts of Circadian Disruption with Modification by Lifestyle Factors”, Columbia, SC. |
| April, 2014 | Colloquium Series at the Cancer Prevention and Control Program, University of South Carolina, “Sleep Disruption, Physical Activity, and Inflammation among People Living with HIV/AIDS”, Columbia, SC. |
| Jan, 2013 | Brownbag Seminar Series for the Department of Epidemiology and Biostatistics, University of South Carolina, “Circadian Disruption Indicators and Health Impacts from the BCOPS and BRCA GEL Studies”, Columbia, SC. |

Teaching History

Clinical Applications of Population Analysis, NURS720B: 7-week course, University of South Carolina (3 Credits), taught in Spring 2020 (Lead Instructor).

Clinical Applications of Population Analysis, NURS720: 14-week course, University of South Carolina (3 Credits), taught in Spring 2020 (Co-Instructor), Fall 2018 (Co-Instructor).

Principles of Epidemiology, EPID 410: University of South Carolina (3 credit hours), taught in Fall 2022 (Instructor), Fall 2021 (Instructor), Fall 2020 (Instructor), Fall 2019 (Instructor), Fall 2019 (Instructor), Spring

2019 (Instructor), Fall 2018 (Instructor), Spring 2018 (Instructor), Fall 2017 (Instructor), Fall 2016 (Instructor), Spring 2016 (Instructor, flipped class format), Spring 2015 (Instructor), Fall 2010 (Teaching Assistant).

Nursing Research Methods II, NURS811: University of South Carolina (3 credit hours), taught in Fall 2022 (Instructor), Fall 2021 (Lead Instructor), Fall 2020 (Lead Instructor), Fall 2019 (Lead Instructor), Spring 2019 (Lead Instructor).

Application of Statistics for Evidence Based Nursing Practice, NURS 817: University of South Carolina (3 credit hours), taught Summer 2023 (Co-instructor, not lead), Fall 2021 (Instructor), Fall 2020 (Instructor), Fall 2019 (Instructor), Summer 2019 (Instructor), Summer 2018 (Lead Instructor).

Introduction to Epidemiology, EPID 700: University of South Carolina (3 credit hours), taught Summer 2018 (Instructor), Spring 2018 (Instructor).

Research Methods for Nurses, NURS 790: University of South Carolina (3 credit hours), taught Fall 2017 (Instructor).

Application of Basic Statistics for Nursing Practice & Service Management, NURS717: University of South Carolina (3 credit hours), taught in Spring 2017 (Instructor).

Statistical and Research Methods for Nursing Practice, NURS789: 7-week course, University of South Carolina (3 credit hours), taught in Spring 2023 (Instructor), Spring 2022 (Instructor)

Invited Class Lectures

Scientific Writing and Appraisal of Epidemiologic Studies (EPID 722, University of South Carolina), ‘Thesis Process Tips from Beginning to End’, in Fall 2023, Fall 2022, and Fall 2021.

Epidemiology Methods III (EPID 802, University of South Carolina), ‘SBIR/STTR’ in Spring 2020, Spring 2019, Fall 2017, Fall 2016, Fall 2015

Endocrinology of Exercise and Health (EXSC 777, University of South Carolina) ‘Hormones and Circadian Physiology’ in Fall 2022, Fall 2021, Fall 2020, Fall 2019, Fall 2018, Fall 2017, Fall 2016, Fall 2015

Nutrition Epidemiology (EPID 763, University of South Carolina), ‘Meal Timing and Frequency’ in Fall 2019
Proseminar in Public Health with a focus on Nutritional Epidemiology (SCHC 476, University of South Carolina), ‘Chrononutrition’ in Fall 2021, Fall 2020, Fall 2019

Cancer Epidemiology (EPID 746, University of South Carolina), ‘Evaluating Cause: Chronobiology and Circadian Disruption’ in Spring 2023, Spring 2021, Spring 2019, Spring 2017, Spring 2015, Spring 2013

Seminar in Epidemiology (EPID 745, University of South Carolina), ‘Thesis Process Tips from Beginning to End’ in Fall 2018, Fall 2017, Fall 2015, Fall 2014, Fall 2013

Seminar in Epidemiology (EPID 745, University of South Carolina) ‘Current Research Topics and Interests: Circadian Biology, Diet, and Chronic Disease’ in Fall 2016

Introduction to Nursing Research Methods (SCHC 279, University of South Carolina) ‘Introduction to Basic Statistics’ in Fall 2017

Introduction to Nursing Research Methods (SCHC 279, University of South Carolina) ‘Diet and Circadian Rhythms’ in Fall 2021, and Fall 2020

Seminar in Epidemiology (EPID 845, University of South Carolina) ‘Entrepreneurial Approaches to Epidemiology’ Spring 2016

Biological Basis of Public Health (EPID 725, University of South Carolina), ‘Introduction to Cancer Biology’ in Spring 2013

Seminar in Epidemiology (EPID 7100, University of Georgia), ‘Shift Work and Other Circadian Disrupters’ in Spring 2015

Cancer Epidemiology (EPID 8410, University of Georgia), ‘Chronobiology and Cancer’ in Spring 2014

Cancer Biology (BIOL A540, University of South Carolina-Aiken), ‘Circadian Disruption and Cancer’ in Spring 2014

Honors and Awards

- 2023 Awarded the Norman J. Arnold Alumni Award from the Arnold School of Public Health, University of South Carolina
- 2022 Accepted as a Fellow in the American College of Epidemiology
- 2021 Selected to the competitive Propel Research Mentorship Program through the Office of the Vice-President for Research at the University of South Carolina
- 2021 Awarded the Excellence in Graduate Teaching Award from the College of Nursing, University of South Carolina which is a student nominated award
- 2012 Awarded 2012 Alice Hamilton Award Honorable Mention from NIOSH, Epidemiology and Surveillance Category for manuscript entitled 'Shiftwork duration and the awakening cortisol response among police officers'
- 2010 Inducted into Delta Omega Honorary Society, Mu Chapter
- 2010 Inducted into Golden Key International Honor Society
- 2003 – 2007 Selected to Dean's and President's List every semester at Wingate University
- 2006 Inducted into Alpha Chi Undergraduate Honor Society

Professional Service and Memberships

NIH Review Services

- Spring, 2023 Served as an temporary Early-career Reviewer (ECR) for the Lifestyle and Health Behaviors Study Section, Epidemiology and Population Health (EPH) Review Branch.

Scientific Conference Services

- Mar, 2023 Abstract reviewer for the Society of Epidemiologic Research annual conference.
- 2022-Present Career Mentoring Committee Member for the American College of Epidemiology.
- Aug, 2014 Panelist for session titled 'Innovation and Entrepreneurialism: The Dietary Inflammatory Index', SC Regional Cancer Health Disparities Program (GMap) Conference, Columbia, SC.
- Aug, 2012 Chair for session titled 'Occupation and Cancer', International Society for Environmental Epidemiology 24th Annual Conference, Columbia, SC.

Editorial Boards

- 2019-Present Editorial Board Member for *Nutrients* (IF=6.71)

Peer Review Services

- 2023 Peer reviewer for *Nutrients* (2 papers); *Nutrition Research*; *Obesity Reviews*; *Chronobiology International*; *Diabetes/Metabolism Research and Reviews*; *American Journal of Psychiatry*. **Total reviews = 6; Average IF of journals at time of review = 8.25.**
- 2022 Peer reviewer for *Nutrients* (4 manuscripts); *British Journal of Nutrition*; *Journal of Affective Disorders*; *Clinical Nutrition*; *Journal of Reproductive Immunology*; *Clinical Nutrition ESPEN*; *Journal of the American Nutrition Association*; *Chronobiology International* (2); *Frontiers in Public Health*; *Nature and Science of Sleep*; *Ecotoxicology and Environmental Safety*. **Total reviews = 15; Average IF of journals at time of review = 5.33**
- 2021 Peer reviewer for *Nutrition and Cancer* (3 manuscripts); *BMJ Open*; *Risk Management and Healthcare Policy*; *Nutrition Research* (2 manuscripts); *Chronobiology International* (2 manuscripts); *Applied Physiology, Nutrition, and Metabolism*; *Clinical Nutrition*; *Archives of Gerontology and Geriatrics*; *European Journal of Clinical Nutrition*; *Nutrition & Dietetics*; *Nature and Science of Sleep*; *Sleep Medicine Reviews*; *Nutrition*. **Total reviews = 17**
- 2020 Peer reviewer for *Stress*; *International Journal of Environmental Research and Public Health*; *Biological Rhythm Research*; *AIMS Public Health*; *American Journal of Clinical Nutrition*; *BMC Nutrition*; *BMJ*; *Obesity Reviews*; *Nature and Science of Sleep*; *Biological Research for Nursing*;

Clinical Nutrition (6 manuscripts); Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy (2 manuscripts); European Journal of Clinical Nutrition; Physiology and Behavior; Scientific Reports; Journal of Nutrition; Safety; Cancer; Chronobiology International. Total reviews = 25

- 2019 Peer reviewer for *Obesity Reviews (2 manuscripts); Biological Research for Nursing; Public Health Reports; British Medical Journal; Journal of Human Nutrition and Dietetics; Nutrition & Dietetics; Nutrients (3 manuscripts); Nutrition and Cancer; Cancer Investigation; Journal of Medical Screening; European Journal of Clinical Nutrition; Physiology and Behavior; Chronobiology International (2 manuscripts); Research Quarterly for Exercise and Sport; Journal of Occupational Medicine and Toxicology; International Journal of Food Sciences & Nutrition; Diabetes, Metabolic Syndrome, and Obesity: Targets and Therapy. Total reviews = 21*
- 2018 Peer Reviewer for *Journal of the American College of Nutrition; The Journal of Nutrition; Public Health Nutrition; Hormone and Metabolic Research; British Medical Journal (2 manuscripts); BMC Cancer; Nutrition and Cancer (2 manuscripts); BioMed Research International; Annals of Epidemiology; Medicine & Science in Sports & Exercise; Nutrition and Dietetics; Obesity Reviews; Chronobiology International; BMC Cardiovascular Disorders; Nutrients (2 manuscripts); Journal of Human Nutrition and Dietetics; Annals of Epidemiology; Annals of Work Exposure and Health; American Journal of Industrial Medicine; Journal of Affective Disorders; Diabetology & Metabolic Syndrome; Physiology & Behavior; Ecology of Food and Nutrition. Total reviews = 26*
- 2017 Peer Reviewer for *Nutrients; Gut; Public Health Nutrition (2 manuscripts); Nature and Science of Sleep; Journal of Physical Activity and Health; PLOS ONE; Chronobiology International (4 manuscripts); Nutrition and Dietetics; Stress; Journal of Occupation Medicine and Toxicology; Nutrition and Cancer (2 manuscripts); Journal of Environmental Research and Public Health; Medicine & Science in Sports & Exercise; Clinical Nutrition. Total reviews = 18*
- 2016 Peer Reviewer for *Chronobiology International (3 manuscripts); International Journal of Public Health; Medicine & Science in Sports & Exercise; European Journal of Clinical Nutrition; Public Health Nutrition; Nutrition and Cancer (2 manuscripts); American Journal of Industrial Medicine; Body Image; International Journal of Molecular Science; American Journal of Clinical Nutrition; British Journal of Nutrition; PLOS ONE; Oncotarget. Total reviews = 16*
- 2015 Peer Reviewer for *Journal of Academy of Nutrition and Dietetics; Industrial Health; AIDS and Behavior (2 manuscripts); PLOS ONE; Chronobiology International; Stress; Diabetes, Obesity, and Metabolism; Body Image; Nutrition Research. Total reviews = 10*
- 2014 Peer Reviewer for *Mayo Clinic Proceedings; Cancer Medicine; Archives of Environmental and Occupational Health; Psychoneuroendocrinology (2 manuscripts); Biomedical and Environmental Sciences; and Physiology and Behavior. Total reviews = 7*
- 2012 Peer Reviewer for *Psychoneuroendocrinology. Total reviews = 1*

Award Review Services

- 2020-2023 Served yearly as a reviewer for NIOSH's Alice Hamilton Awards for Occupational Safety and Health manuscripts.

Organizational Memberships

- 2021-Present Member of the Sleep Research Society (SRS)
2017-Present Member of the American College of Epidemiology (ACE)
2017-Present Member of the Society for Epidemiologic Research (SER)
2013-Present Member of the American Public Health Association (APHA)
2021-2022 Member of the American Society for Nutrition (ASN)
2014-2017 Member of the Society for Research on Biological Rhythms (SRBR)
2015-2016 Member of the American Association for Cancer Research (AACR)

- 2013-2014 Member of the International Society for Environmental Epidemiology (ISEE)
 2010-2011 Member (student) of the South Carolina Public Health Association (SCPHA)

Media Coverage

- Mar, 2023 Interviewed by Erin Prater, Future Well., “An inflammatory diet could be hurting your sleep. What foods to avoid (and which to indulge in)”.
- Mar, 2017 Interviewed by Mike Caulo, Life of a Fighter Podcast, “Creators of the World’s First Dietary Inflammatory Index”.
- Oct, 2014 Interviewed by Sarah Trotto, National Safety Council’s *Safety + Health*, “Exploring shift worker health”.

Academic Service

University of South Carolina

- 2022-Present Serve on the University Athletics Advisory Committee.
- 2022 Served as a judge for the University of South Carolina Graduate School’s Three Minute Thesis Competition.
- 2022-Present Served as Faculty Advisor to a University of South Carolina student organization called HOSA (Health Occupations Students of America) which is an organization that provides opportunities for knowledge, skill, and leadership development for students.
- 2020 Served on the SPARC grant review committee for the 2020-2021 submission cycle.
- 2019 Served on the SPARC grant review committee for the 2019-2020 submission cycle.
- 2019 Served on the internal grant review committee for the ASPIRE mechanism.
- 2018-2019 Served as the Faculty Advisor to a University of South Carolina student organization called Han’ Go International which is a student-led organization that fundraises for medical supplies to provide to places in need.

College of Nursing

- 2020-Present Nominations and Bylaws Committee: member (2020-2021, 2022-2023), chair (2021-2022)
- 2020-2023 Chair of the Curriculum Committee for the PhD Council: member (2021-2022), chair (2020-2021 and 2022-2023)
- 2022-2023 Taskforce member for College of Nursing reorganization and academic council reorganization
- 2021-2022 Chair of Qualifying Exam Taskforce
- 2019-Present Served on the Petitions committee

Arnold School of Public Health

- 2020 Served as a member of the Delta Omega Undergraduate Student Selection Committee
- 2019-Present Served as a member for a Data Safety Monitoring Board for an R01 funded under Dr. Brie Turner-McGrievy.

Epidemiology and Biostatistics Departmental Committees

- 2017-Present Member of the Curriculum Committee for the Department of Epidemiology and Biostatistics, University of South Carolina
- 2018 Member of search committee for adjunct instructors of undergraduate epidemiology course for the Department of Epidemiology and Biostatistics, University of South Carolina
- 2017-2018 Member for epidemiology faculty position search committee in the Department of Epidemiology and Biostatistics, University of South Carolina
- 2014-2015 Co-Chair for the Fun & Frolic Committee for the Department of Epidemiology and Biostatistics, University of South Carolina.

Graduate Thesis/Dissertation Committee

*Dates indicate year completed

Present	Doctoral dissertation committee for Prince Addo, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "Adolescent Sleep patterns and Cardiovascular Disease Risk in Adulthood" (in progress).
Present	Doctoral dissertation committee for Jennifer Beecroft, College of Nursing, University of South Carolina, "TBD" (in progress).
Present	Master's thesis chair for Nowrin Tamanna, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "Pregnancy Dietary Inflammatory Index and Association With Postpartum Sleep Outcomes And Postpartum Depressive Symptoms" (in progress).
Present	Doctoral dissertation committee for Brittany Crawford, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "Shared Genetic Associations of Circadian Rhythm and Sleep Disorder Traits with Risk of Monoclonal Gammopathy of Undetermined Significance (MGUS) and Multiple Myeloma" (in progress).
Present	Doctoral dissertation chair for Ubong James, College of Nursing, University of South Carolina, "TBD" (in progress).
Present	Doctoral dissertation committee for Samantha Truman, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "TBD" (in progress).
Present	Doctoral dissertation committee for Amanda Bennett, College of Nursing, University of South Carolina, "Sleep Disturbances among Lung Cancer Survivors with Chronic Obstructive Pulmonary Disease" (in progress).
2023	Doctoral dissertation committee for Kathy Nelson, College of Nursing, University of South Carolina, "The Impact of Shift Work on Women's Neurological Health" (completed).
2022	Master's thesis chair for Radhika Ranganathan, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "Rural Urban Differences in Survival among Patients with Early Onset Colorectal Cancer" (completed).
2022	Doctoral dissertation committee for Jingxi Sheng, College of Nursing, University of South Carolina, "Physical Activity and Breast Cancer in Asian American Women" (completed).
2022	Master's thesis committee for Nyrobi Tyson, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "Association between Postpartum Weight Retention and The Dietary Inflammatory Index" (completed)
2021	Doctoral dissertation committee for Pam Wright, College of Nursing, University of South Carolina, "Advancing Knowledge about Exercise as a Therapeutic Management Strategy for Women with Polycystic Ovary Syndrome" (completed).
2021	Doctoral dissertation committee for Kayla Everhart, College of Nursing, University of South Carolina, "The Role of Blood Transfusions, Body Temperature and Feeding in the Pathogenesis of Necrotizing Enterocolitis in the Early Preterm Infant" (completed).
2021	Doctoral dissertation committee for Karen Starr, College of Nursing, University of South Carolina, "Early Premature Infant Stressors and Instability Resulting in ANS Dysfunction" (completed).
2020	Doctoral dissertation committee for Cynthia Horton Diaz, College of Nursing, University of South Carolina, "Hospital Consumer Food Environment Assessment from the Nurses' Perspective" (completed).
2020	Master's thesis committee for Sydney Smith, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "The Practical Advantages/Disadvantages of Laplace Regression as an Alternative to Cox Proportional Hazards Model: A Comparison Via Simulation" (Completed).

- 2020 Master's thesis committee for Marie Knoll, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "Association between Urinary Enterolignans as a Marker for Gut Microbiome Diversity and Depression in NHANES" (Completed).
- 2020 Doctoral dissertation committee for Malcolm Bevel, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "The Impact of Clinical Factors on Healthy on Healthy Lifestyle Interventions and Inflammation: A Mediation Analysis" (Completed).
- 2019 DNP committee member for Sheila Joy West, College of Nursing, University of South Carolina, "Evaluation, Education, and Referral Change for Inpatient Hospitalization Screening of Obstructive Sleep Apnea" (Completed).
- 2018 Master's thesis chair for Meghan Holst, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "A Longitudinal Analysis of Shiftwork and Self-Reported Depression in a Police Cohort" (Completed).
- 2018 Master's thesis chair for Megan Buss, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "Association of Objective Markers of Sleep and Inflammation Markers on Police Officers: A Cross-Sectional Analysis" (Completed).
- 2018 Doctoral dissertation committee for Jiali Zheng, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "Dietary Inflammatory Index and Pancreatic Cancer Risk: Interaction and Mediation Analysis in Two Prospective Cohorts" (Completed).
- 2018 Master's thesis committee for Marjorie Howard, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "Comparison of Linear Regression and Quantile Regression with Non-normal Data" (Completed).
- 2018 Master's thesis committee for Nikki Luttrell, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "Hypertension Prevalence and the Awareness, Treatment, and Control among Food Insecure Households" (Completed).
- 2018 Doctoral dissertation committee for Torrance Nevels, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "Sleep, Shiftwork Adaptation, Metabolic Syndrome, and Autonomic Dysfunction" (Completed).
- 2018 DNP project epidemiology and biostatistical consultant for Jamie Brick, College of Nursing, University of South Carolina, "A Practice Change to Eliminate Prophylactic Antibiotics for Elective Percutaneous Nephrostomy Tube Exchanges in Low-Risk Outpatients: A Retrospective Review on Risk of Infection" (Completed).
- 2018 Master's thesis chair for Amber Watson, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "The Longitudinal Analysis of Cardiorespiratory Fitness for Those with and without Type II Diabetes" (Completed)
- 2017 Doctoral dissertation committee member for Daria McMahon, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "Effects of chronotype on behavioral outcomes from the Energy Balance study" (Completed).
- 2017 Master's thesis committee for Molly Harris, Department of Exercise Science, Arnold School of Public Health, University of South Carolina, "Recreational Athletes' Habits of Sleep and Predisposing Factors of Exertional Heat Illness" (Completed).
- 2017 Master's thesis committee for Caitlin Hart, Department of Exercise Science, Arnold School of Public Health, University of South Carolina, "Hydration Knowledge in Recreational Athletes" (Completed).
- 2017 Master's thesis chair for Susannah Small, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, "Effects of a Mindfulness Based Intervention on Diurnal Cortisol in Cancer Survivors" (Completed).

2016 Doctoral dissertation committee member for William Lindbald, Department of Epidemiology and Biostatistics, University of Georgia, "The Role of Circadian Disruption in Determining Risk for Specific Molecular Subtypes of Breast Cancer: A Study of Light-at-night, Chronotype, and Breast Cancer Subtype in Georgia" (ABD).

Graduate Independent Studies

Spring, 2022 Independent Study for Robin Dawson, College of Nursing, University of South Carolina, "Exploration of secondary data analyses of large datasets using SAS"

Spring, 2021 Independent Study for Jingxi Zheng, College of Nursing, University of South Carolina, "Concentration in Complex Survey Design Procedures and Analysis"

Fall, 2020 Independent Study for Ubong James, College of Nursing, University of South Carolina, "Literature Review, Analysis of Data, and Development of Sections of a Manuscript"

Fall, 2020 Independent Study for Pamela Wright, College of Nursing, University of South Carolina, "Methods and Experience in Data Management and Statistical Analyses".

Spring, 2020 Independent Study for Ubong James, College of Nursing, University of South Carolina, "Methods and Experience in Research Manuscript and Presentation Development"

Fall, 2019 Research Internship Instructor for Ubong James, College of Nursing, University of South Carolina (Completed).

Spring, 2016 Independent Study for Samira Khan, Department of Health Promotion, Education, and Behavior, Arnold School of Public Health, University of South Carolina (completed).

Undergraduate Research Director/Chair/Committee Member

*Dates indicate year completed

Present Thesis Director for Erika Pierce, Undergraduate Honors College Thesis, University of South Carolina, "TBD" (in progress).

Present Thesis Director for Elizabeth Tamura, Undergraduate Honors College Thesis, University of South Carolina, "TBD" (in progress).

Present Mentor for Kana Quinn under the Magellan Journey program.

Present Thesis Director for Eliza Davis, Undergraduate Honors College Thesis, University of South Carolina, "TBD" (in progress).

2023 Thesis Director for Hannah Boyajieff, Undergraduate Honors College Thesis, University of South Carolina, "A National Public Health Crisis – Life Expectancy Disparity Between the United States and its Foreign Counterparts" (completed).

2022 Thesis Director for Emma Epperly, Undergraduate Honors College Thesis, University of South Carolina, "The Impact of Strength Training on Mental Health in Nursing Students During the COVID-19 Pandemic" (completed).

2022 Thesis Committee Member for Leah Strothers, Undergraduate Honors College Thesis, University of South Carolina, "A Scoping Review of the Impact of Hurricanes on Disease in the United States" (completed).

2022 Thesis Committee Member for Haakim Waraich, Undergraduate Honors College Thesis, University of South Carolina, "Weight Status Underestimation in Rural South Carolina" (completed).

2022 Thesis Director for Sydney Peppers, Undergraduate Honors College Thesis, University of South Carolina, "The Relationship Between Work Engagement, Depression, Anxiety, and COVID-19 Anxiety in Physician Assistant Students" (completed).

2021 Thesis Director for Lina Saleh, Undergraduate Honors College Thesis, University of South Carolina, "Fake Health: The Public Crisis of Fake Medicine & Health Misinformation" (completed).

- 2021 Thesis Director for Douglas Wallace, Undergraduate Honors College Thesis, University of South Carolina, "Implications of Rapid Weight Loss on Competitive Success in Amateur Brazilian Jiu-Jitsu" (completed).
- 2018 Thesis Director for Angela Jessup, Undergraduate Honors College Thesis, University of South Carolina, "The Effects of Shift Work on Natural Rhythms of the Human Body" (completed)
- 2017 Thesis Director for Blaire Brooks, Undergraduate Honors College Thesis, University of South Carolina, "The Skin Cancer Health Crisis and Recommended Intervention Methods" (completed).

Undergraduate Independent Study

- 2020 Independent Study Instructor for Jaclyn Meyer, University of South Carolina, "A Qualitative Study of Educational Experiences among Nursing Students"
- 2020 Independent Study Instructor for Ashley Long, University of South Carolina, "Research Experience in Clinical Trials of Fasting Diets"
- 2019 South Carolina Honors College Undergraduate Research Experience Instructor for Sarah Eustis (1 credit), University of South Carolina, "Associations between Dysbiosis and Depressive Symptoms: Findings from NHANES Data 2005-2016" (completed)
- 2019 Independent Study Instructor for Jaclyn Meyer, University of South Carolina, "Qualitative Methods Assessing Nursing Experience" (completed)
- 2016 Mentor for Taylor Lamia, Undergraduate Summer Research Opportunities from Rutgers University.

Previous Support

Behavioral-Biomedical Interface Program (BBIP) 2009-2011 – NIH/NIGMS T32 pre-doctoral research. This interface program aims to prepare behavioral scientists in training to biomedical/biological content and methods so that they will function effectively as members of interdisciplinary research teams.

Project Title: Developing the Dietary Inflammatory Index for Clinical Application. **Multiple Principal Investigators:** Nitin Shivappa and Michael Wirth. **Agency:** National Institutes of Health. **Type:** SBIR. **Period:** 2014-2016. **Project Costs:** \$1,811,151 Direct, additional \$50,000 provided in matching funds by SC Launch. **Objectives:** The Dietary Inflammatory Index (DII) is a tool that will form the basis of counseling/instructional systems aimed at helping patients and their providers to control chronic, systemic inflammation by improving diet. Phase I will focus on developing the reporting systems (i.e., mobile/web applications) used by the patient. Phase II will build upon Phase I which includes an intervention trial based on DII response-associated recommendations aimed at reducing chronic inflammation. **Role:** MPI (75% year 1, 100% year 2, 50% year 3).

Project Title: Mindfulness intervention to improve symptomology among cancer survivors; focus on sleep and stress improvement. **Principal Investigator:** Drs. Michael Wirth, Sara Wagner Robb, and Mark O'Rourke. **Agency:** Greenville Health System: Transformative Research Seed Grant. **Type:** Internal seed grant. **Period:** 2015-2016. **Project Costs:** \$39,782 includes matching funds from the University of South Carolina Institute for the Advancement of Healthcare. **Objectives:** This study will provide preliminary data examining the relationship between mindfulness-based stress reduction and improvement in sleep and stress among cancer patients. This data will better inform the development of a larger grant proposal. **Role:** MPI (0%, in kind).

Project Title: Developing the Use of the Dietary Inflammatory Index among Children (C-DII). **Principal Investigator:** Drs. Nitin Shivappa and Michael Wirth. **Agency:** USDA. **Type:** SBIR. **Period:** 2016-2017. **Project Costs:** \$99,794 total. **Objectives:** This Phase I SBIR grant is designed to modify an existing Dietary Inflammatory Index (DII) for use among children (C-DII). This mechanism will seek to create a standard world

database of dietary intake among children for standardization purposes. This mechanism also will construct validate the C-DII and examine associations with inflammatory-related conditions among children. **Role:** MPI (14% of 9 month grant period).

Project Title: Timing of Food Consumption, Weight Loss, and Inflammation among African-American Women. **Principal Investigator:** Dr. Michael Wirth. **Agency:** National Cancer Institute (NCI) Geographic Management of Cancer Health Disparities Program (GMap) Region 1 North Research Project Support Application. **Type:** Internal support mechanism. **Period:** 2016-2017. **Project Costs:** \$10,000 Total. **Objectives:** Using the The Sistas Inspiring Sistas through Activity and Support (SISTAS) Program, this study will examine whether the Dietary Inflammatory Index (DII) differs by meal time or type. Additionally, this project will determine if meal timing or the DII influenced the outcomes of the intervention (e.g., inflammation, breast density, weight loss) **Role:** PI (7.5% Year 1).

Project Title: A watermelon focused dietary inflammatory index counseling system to reduce systemic inflammation. **Program Investigator:** Nitin Shivappa **Agency:** National Watermelon Promotion Board. **Type:** Pilot study funding. **Period:** 2017. **Project Costs:** \$26,362 total. **Objectives:** The overall objective of this proposal is to determine if a refined and modified watermelon-focused DII counselling system can reduce levels of chronic inflammation. **Role:** Co-investigator (0.6 total calendar months).

Project Title: Qualitative Exploration of Future and Current Nurses Perceptions and Experiences on the Transition into the Nursing Workforce. **Principal Investigator:** Dr. Michael Wirth **Type:** Internal seed grant. **Agency:** University of South Carolina internal ASPIRE award. **Period:** 2018-2019. **Project Costs:** \$10,000 (Total) **Objectives:** This proposal is unique in that it will be one of the first qualitative studies that aims to investigate upcoming concerns about the transition to the workforce among nursing students. At the same time, this study will investigate changes in health behaviors that have occurred among those who recently graduated and are currently in the nursing workforce. **Role:** Co-investigator (0.6 total calendar months).

Project Title: Advancing Knowledge about Exercise as a Therapeutic Management Strategy for Women with Polycystic Ovary Syndrome. **Principal Investigator:** P. Wright **Agency:** NIH. **Period:** 2021-2022. **Objectives:** The central hypothesis was that understanding the biopsychosocial characteristics of women with PCOS and developing supports using a person-centered, participatory approach are prerequisite to designing and testing therapeutic exercise interventions. **Role:** Co-I (in-kind).

Active Grant Funding

Project Title: Shiftwork Adaptation in Law Enforcement: Targeting Chronic Disease Prevention. **Principal Investigator:** Drs. John Violanti and James Burch **Agency:** NIJ. **Type:** Similar to R01 mechanism. **Period:** 2020-2022. **Project Costs:** \$834,177. **Objectives:** The goal of this research is to characterize the impacts of shift work, overtime, and secondary employment among police, identify strategies for adapting to these factors, and to quantify early biological indicators of chronic disease and other adverse health outcomes among police officers. **Role:** Co-I, converted to subcontract PI (1.2 calendar months per year).

Project Title: Evaluation of a blood warming device for packed red blood cell transfusions to decrease hypothermia in preterm infants. **Principal Investigator:** Dr. Kayla Everhart **Agency:** Gerber Foundation. **Period:** 2022-2025. **Project Costs:** Total \$327,097. **Objectives:** The primary aim of this study is to test the effect of the Ranger blood warmer on the incidence of post PRBC transfusion hypothermia in very preterm infants. **Role:** Co-I (in-kind).

Project Title: Honors College Research Grant for the Summer 2022, Fall 2022, and Spring 2023. **Principal Investigator:** Kana Quinn. **Agency:** Honor's College, University of South Carolina. **Period:** 2022-2023. **Project Costs:** Total \$3,000. **Objectives:** Kana Quinn is mentee of mine who is in the Honor's College. She applied for and earned an award to help cover her research experience time. **Role:** Mentor (in-kind).

Project Title: A Transdisciplinary Approach to Investigating Metabolic Dysregulation in Obese Parent and Child Dyads and Risk of Colorectal Cancer. **Principal Investigator:** Drs. James Hebert, Lorne Hofseth, and Angela Murphy **Agency:** NCI. **Type:** U01. **Period:** 2022-2027. **Project Costs:** Total ~\$5,800,000. **Objectives:** The goal is to establish the metabolic protective effects of an anti-inflammatory diet in obese, high-risk African-American (AA) and European-American (EA) adults and children, as well as to establish gut microbes as mediators between anti-inflammatory dietary input and reversal of metabolic dysfunction and associated CRC risk. **Role:** Co-I (5%).

Project Title: Crafting Resilience. **Principal Investigator:** Elizabeth Davis. **Agency:** University of South Carolina, Magellan Mini-Grant Program. **Period:** 2023. **Project Costs:** Total \$1,000. **Objectives:** Elizabeth Davis is an Honor's College student. As part of her Honor's College thesis, she is conducting primary data collection related to resilience factors in upper division (i.e., clinical education years) nursing students. The funds are to help support participant incentives. **Role:** Mentor (in-kind).