# SCIENTIFIC PI & KEY PERSONNEL PROFILE/BIOSKETCH TEMPLATE

**NAME (Last, First):** Brown, Sherry-Ann

**Position Title (i.e., Role in the Study):** Scientific Director, Heart Spark Research and Innovation Institute

**EDUCATION/TRAINING:**

| INSTITUTION AND CITY/STATE | DEGREE *(if applicable)* | DATE AWARDED *(if applicable)* | FIELD OF STUDY |
|---|---|---|---|
| Wesleyan University, Middletown, CT | B.A. | 05/2003 | Physics (Biotechnology) |
| Wesleyan University, Middletown, CT | M.A. | 05/2004 | Physics (Biotechnology) |
| University of Connecticut Health Center, Farmington, CT | M.D. | 05/2012 | Medicine |
| University of Connecticut Health Center, Farmington, CT | Ph.D. | 05/2012 | Biomedical Sciences |
| Mayo School of Graduate Medical Education, Rochester, MN | Residency/Fellowship | 2015/2019 | Internal Medicine & Cardiovascular Diseases |

**PROFESSIONAL STATEMENT:**

I am Scientific Director of the Heart Spark Research & Innovation Institute, a 501(c)3 nonprofit research organization advancing cardiovascular research, innovation, education, and health equity, and Clinical Associate Professor at the Florida International University Herbert Wertheim College of Medicine. Previously, I served as the inaugural Director of Cardio-Oncology at Froedtert Hospital and the Milwaukee VA Medical Center and as Assistant Professor at the Medical College of Wisconsin. My research integrates cardiovascular medicine, oncology, clinical informatics, artificial intelligence, precision medicine, and health equity to improve outcomes for people affected by cancer. I established an interdisciplinary cardio-oncology research program bringing together clinicians, informaticians, biostatisticians, engineers, implementation scientists, trainees, and community stakeholders to develop and evaluate patient-centered strategies for cardiovascular risk assessment and prevention. My federally funded research has emphasized real-world clinical data, electronic health records, stakeholder-engaged collaboration, and the reduction of disparities in care. These experiences position me to successfully lead and execute PCORI-funded comparative clinical effectiveness research designed to improve patient-centered outcomes.

**EMPLOYMENT AND POSITIONS HELD:**

| INSTITUTION AND CITY/STATE | RESPONSIBILITIES | DATES |
|---|---|---|
| Herbert Wertheim College of Medicine, Florida International University, Miami, FL | Clinical Associate Professor | 2025 – Present |
| Florida International University, Miami, FL | Master of Public Health (MPH) Preceptor | 2024 – Present |
| Heart Spark Research & Innovation Institute, Miami, FL | Scientific Director | 2023 – Present |
| My Heart Spark, P.C. | Cardiologist | 2022 – Present |
| Stateline Medical Center, Stateline, NV | Locum Cardiologist | 2024 – 2024 |
| Medical College of Wisconsin, Milwaukee, WI | Adjunct Assistant Professor, Department of Medicine | 2023 – 2024 |
| Mayo Clinic, Rochester, MN | Research Collaborator | 2020 – 2024 |
| Kaiser Permanente, Atlanta, GA | Locum Cardiologist | 2023 – Dec 2023 |
| Medical College of Wisconsin, Milwaukee, WI | Master's in Clinical & Translational Science Graduate Program Mentoring Faculty | 2022 – 2023 |
| Medical College of Wisconsin, Milwaukee, WI | Assistant Professor, Department of Medicine | 2020 – 2023 |
| Mayo Clinic, Rochester, MN | Instructor, Department of Medicine | 2015 – 2019 |
| University of Connecticut Health Center, Farmington, CT | Graduate Assistant | 2006 – 2010 |

**HONORS:**

1999 University Scholar (leadership, public service, academic excellence), Wesleyan University

2001 Certificates of Excellence in Advanced Spanish, Institutes in Madrid and Granada, Spain
2004 Harvard Medical School Biomedical Science Careers Program (BSCP) Hope Scholar
2005 Health Emotions Research Institute Scholar, University of Wisconsin-Madison
2009 Harvard Medical School Biomedical Science Careers Program (BSCP): Profile Interview
2010 Faculty 1000 in Biology Highlight of Biophysical Journal Article
2010 Broader Engagement Travel Award (High Performance Computing), SuperComputing Conference
2010 Servant's Heart Award (Community Service, Leadership), FaithCare Inc.
2010 HCMA Humanitarian Grant, Hartford County Medical Association
2010-2012 Hubert Trust (Medical Missions) Scholarship, Baptist Medical & Dental Fellowship
2011 Connecticut State Higher Education Community Service Award Nominee
2011 Geezer Memorial Book Award (Winner of Poetry Competition), Connecticut Medical Society
2012 Health Care Opportunities Programs Bridge Mentoring Award
2013 Biophysical Society Travel Award (Biophysics Accomplishments and Science Poetry)
2014 Johnson Short Term (Medical) Mission Scholarship Award
2016 Association of Black Cardiologists Travel Award, Arrhythmia & Heart Failure Course, NY
2016 Young Investigator Award, Society for Preventive Cardiology, Boca Raton, FL
2017 Biggest Dreamer, AHA Ten-Day Seminar at Tahoe
2017 AHA/NIH/Sandra Dougherty Foundation Travel Award, AHA Ten-Day Seminar at Tahoe
2017 Association of Black Cardiologists (ABC) Travel Award, ACC and ABC Scientific Sessions
2017 ABC Travel Award, Arrhythmia & Heart Failure Course
2017 American College of Cardiology (ACC) Travel Award, ACC Legislative Conference
2019 Fellow of the American College of Cardiology (FACC)
2019 Fellow of the American Heart Association (FAHA)
2019 ABC Travel Award, ACC and ABC Scientific Sessions
2019 ABC Travel Award, Cardiovascular Symposium, Los Angeles, CA
2019 Mayo Clinic Travel Award, Mayo Clinic CME Conference on Artificial Intelligence in Cardiology
2019 JACC: Cardio-Oncology Journal Video Interview
2020-2023 American College of Cardiology Leadership Academy Cohort IV
2022 Harvard Medical School Biomedical Science Careers Program (BSCP): Profile Interview
2022 American College of Cardiology Women in Cardiology Practice Makes Perfect Podcast Interview

**SELECTED PEER-REVIEWED PUBLICATIONS:**

- Brown S et al. Establishing an interdisciplinary research team for cardio-oncology artificial intelligence, informatics, precision medicine and health equity. AHJO. 2022.
- Zhou Y et al. Machine learning-based risk assessment for cancer therapy-related cardiac dysfunction. JAHA. 2020.
- Brown S et al. Systems Biology Approaches to Adverse Drug Effects: The Example of Cardio-Oncology. Nat Rev Clin Oncol. 2015.
- Brown S. Preventive Cardio-Oncology: The Time Has Come. Front Cardiovasc Med. 2020.
- Brown S et al. Precision Cardio-Oncology. J Cardiovasc Transl Res. 2020.

**PROJECT/STUDY SUPPORT:**

| INSTITUTION AND CITY/STATE | RESPONSIBILITIES | PROJECT START AND END DATES |
|---|---|---|
| American Heart Association, Dallas, TX | Co-I, Understanding and Addressing Disparities in Cancer Therapy-Induced Inflammation and Associated Endothelial Dysfunction | 2021–2025 |
| Medical College of Wisconsin, Milwaukee, WI | PI, KL2 Career Development Award: Patient Similarity for | 2021–2023 |

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| | Decision-Making in Prevention of Cardiovascular Toxicity | |
| Medical College of Wisconsin, Milwaukee, WI | Lead Co-PI, Personalized Medicine Infrastructure for Cardiovascular Risk Prediction Using AI | 2021–2022 |
| NIH National Cancer Institute | T32 Faculty Mentor, Signature Transdisciplinary Cardiovascular Sciences | 2017–2022 |