

Curriculum Vitae

Name: Jacob Kigo Kariuki

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Business Fax: 412-383-7293

Education and Training

Undergraduate

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| 2002-2008 | University of Eastern Africa, Baraton Kenya | BS Nursing (Cum Laude) |
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Graduate

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| 2011-2013 | University of Massachusetts Boston | MS Nursing |
| 2013-2015 | University of Massachusetts Boston | Post-Masters Certificate Adult-Gerontology NP |
| 2011-2016 | University of Massachusetts Boston | PhD Nursing Population Health/Policy |

Other Relevant Training

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| 2019-2020 | Scholar at the National Heart, Lung, and Blood Institute Programs to Increase Diversity among Individuals Engaged in Health-Related Research (PRIDE-CVD) |
| 2017 – Present | Technology: Research in Chronic and Critical Illness (T32 NR008857) junior faculty affiliate |
| Jan- Dec 2018 | Leadership and team management training at the University of Pittsburgh Faculty Leadership Academy |
| Summer 2017 | Stress in Cardiovascular Disease Seminar at the department of Psychology, University of Pittsburgh |
| Spring 2014 | Research Training in epidemiology and population health at the Division of Medicine, Beth Israel Deaconess Medical Center in Boston, MA |
| Winter 2012 | Clinical Research Training in geriatric clinical trials at the Harvard affiliated Hebrew Senior Life in Roslindale, MA |
| Fall 2012 | Clinical Observation Program at the Center for Nursing Excellence, Brigham and Women's Hospital, Boston, MA |

Appointments and Positions

Academic

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| 04/2021 - Present | University of Pittsburgh School of Nursing | Coordinator, Adult-Gero Primary Care Nurse Practitioner Program |
| 08/2016 - Present | University of Pittsburgh School of Nursing | Assistant Professor |
| 01/2013 - 12/2014 | University of Massachusetts Boston College of Nursing and Health Sciences | AHA Predoctoral Fellow |
| 08/2011 - 05/2016 | University of Massachusetts Boston College of Nursing and Health Sciences | Research/Teaching Assistant |
| 12/2009 - 07/2011 | TumuTumu School of Nursing Kenya | Lecturer and Nurse Tutor |

Non-Academic/Clinical

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|-------------------|--|--------------------------------|
| 12/2021- Present | Signify Health | Per Diem Nurse Practitioner |
| 12/2017 – 08/2019 | FOCUS Pittsburgh Free Health Clinic Pittsburgh, PA | Per Diem Nurse Practitioner |
| 01/2015 - 08/2016 | BearHill Nursing & Rehabilitation Center Stoneham, MA | Part-time Staff Nurse (RN) |
| 08/2013 - 12/2014 | PSA Healthcare Brockton, MA | Part-time Staff Nurse (RN) |
| 10/2008 - 11/2009 | Coast General Provincial Hospital Kenya | Nursing Officer I (RN) |

Licensure and Certification

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| Dec 2016 | SP016967 American Academy of Nurse Practitioners Pennsylvania State Board of Nursing | PA Adult-Gerontology |
| Dec 2016 | RN689489 Pennsylvania State Board of Nursing | PA RN |
| May 2016 | RN2277965 American Academy of Nurse Practitioners Massachusetts State Board of Nursing | MA Adult-Gerontology |
| Aug 2012 | Basic Life Support Certification American Heart Association | |
| March 2012 | RN2277965 Massachusetts State Board of Nursing | MA RN |

Membership in Professional and Scientific Societies

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| 2013 – Present | American Heart Association Member of the Martha Hill Awards Subcommittee of the Council on Cardiovascular and Stroke Nursing; and the Early Career Committee of the Council on Lifestyle and Cardiometabolic Health |
| 2010 –2016 | Preventive Cardiovascular Nurses Association Member of the Global Nursing Leadership Forum (GNLF) |
| 2013 –2017 | Eastern Nursing Research Society Member |
| 2013 –2015 | Sigma Theta Tau International, Theta Alpha Chapter Honor Society Member |

Honors

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| July 2021 | Participant in the NIH Early Career Reviewer (ECR) Program |
| July 2021 | Member, American Heart Association Lifestyle Physical Activity Committee of the Council on Lifestyle and Cardiometabolic Health |
| July 2021 | Member At Large, American Heart Association CVSN Awards Committee of the Council on Cardiovascular and Stroke Nursing |
| Jan 2021 | Associate Editor, Behavioral Medicine |
| May 2020 | Committee member, American Heart Association Early Career Committee of the Council on Lifestyle and Cardiometabolic Health |
| Feb 2017 | University of Toronto Lawrence S. Bloomberg Faculty of Nursing; Bloomberg Emerging Nurse Scholar |
| Feb 2017 | Epidemiology and Prevention Council of the American Heart Association; Early Career Travel Grant |
| Aug 2016 | Council on Cardiovascular and Stroke Nursing of the American Heart Association: Martha Hill new investigator award finalist |
| July 2016 | Preventive Cardiovascular Nurses Association; Cardiovascular disease prevention graduation award |
| May 2016 | UMass Boston graduation commencement committee; Graduate student speaker |
| April 2016 | UMass Boston PhD program committee; Book award for academic excellence in Nursing |
| Jan 2016 | Lynch Foundation; Nursing Fellowship Award |

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| April 2014 | New England Science Symposium; Ruth and William Silen, M.D. Award for the best presentation in public health and epidemiology category |
| May 2013 | Sigma Theta Tau Honor Society Theta Alpha Chapter; Brenda S. Cherry Dissertation Research Award |
| May 2013 | Sigma Theta Tau International; Induction to Theta Alpha Chapter Honor Society. |
| Jan 2013 | Lynch Foundation; Nursing Fellowship Award |
| April 2012 | New England Science Symposium; Ruth and William Silen, M.D. Award for the third best poster presentation in all categories |

Publications

Refereed Articles * = Data Based

1. ***Kariuki JK**, Rockette-Wagner B, Cheng J, Erickson KI, Gibbs BB, Sereika SM, Kline CE, Wayan, IP, Bizhanova Z, Bu Saad M, Mendez DD, Burke LE. Neighborhood Walkability is Associated with Physical Activity and Prediabetes in a Behavioral Weight Loss Study. *Int J Behav Med* (revisions required).
2. *** Kariuki, J. K.**, Yang, K., Scott, P., Luyster, F. S., Godzik, C. M., Chasens, E. R., Imes, C. C., (2021). Obstructive Sleep Apnea Risk Is Associated With Severity of Metabolic Syndrome: A Secondary Analysis of the 2015-2018 National Health and Nutrition Examination Survey. *J Cardiovasc Nurs*.
3. *** Burke, L. E., Kline, C. E., Mendez, D. D., Shiffman, S., Chasens, E. R., Zheng, Y., Imes, C. C., Cajita, M. I., Ewing, L., Goode, R., Mattos, M., Kariuki, J. K., Kriska, A., & Rathbun, S. L.** (2021). Nightly Variation in Sleep Influences Self-efficacy for Adhering to a Healthy Lifestyle: A Prospective Study. *International Journal of Behavioral Medicine*.
<https://doi.org/10.1007/s12529-021-10022-0>
4. *** Burke, L. E., Sereika, S. M., Parmanto, B., Bizhanova, Z., Kariuki, J. K., Cheng, J., Beatrice, B., Loar, I., Pulantara, I. W., Wang, Y., Cedillo, M., & Conroy, M. B.** (2022). Effect of tailored, daily feedback with lifestyle self-monitoring on weight loss: The SMARTER randomized clinical trial. *Obesity (Silver Spring, Md.)*, 30(1), 75–84.
<https://doi.org/10.1002/OBY.23321>
5. ***B Rockette-Wagner, J Cheng, AM Kriska, Z Bizhanova, SM Sereika, CE Kline, CC Imes, J Kariuki, D Mendez, LE Burke.** Change in Objectively Measured Activity Levels Resulting from a Lifestyle Intervention using Ecological Momentary Assessment: The EMPOWER Study. *Transl J Am Coll Sports*
6. ***Imes CC, Bizhanova Z, Sereika SM, Korytkowski MT, Atwood CW Jr, Burke LE, Kariuki J, Morris JL, Stansbury R, Strollo PJ Jr, Chasens ER.** Metabolic outcomes in adults with type 2 diabetes and sleep disorders. *Sleep Breath*. Accepted for publication
7. **Kariuki, J. K.**, Gibbs, B. B., Erickson, K. I., Kriska, A., Sereika, S., Ogutu, D., Milton, H., Wagner, L. V., Rao, N., Peralta, R., Bobb, J., Bermudez, A., Hirshfield, S., Goetze, T., & Burke, L. E. (2021). The feasibility and acceptability of a web-based physical activity for the heart (PATH) intervention designed to reduce the risk of heart disease among inactive African Americans: Protocol for a pilot randomized controlled trial. *Contemporary Clinical Trials*, 104. <https://doi.org/10.1016/j.cct.2021.106380>

8. Cajita, M. I., Zheng, Y., **Kariuki, J. K.**, Vuckovic, K. M., & Burke, L. E. (2021). mHealth Technology and CVD Risk Reduction. *Current Atherosclerosis Reports*, 23(7). <https://doi.org/10.1007/s11883-021-00927-2>
9. *Chasens, E. R., Imes, C. C., **Kariuki, J. K.**, Luyster, F. S., Morris, J. L., DiNardo, M. M., Godzik, C. M., Jeon, B., & Yang, K. (2021). Sleep and Metabolic Syndrome. In *Nursing Clinics of North America* (Vol. 56, Issue 2). W.B. Saunders. <https://doi.org/10.1016/j.cnur.2020.10.012>
10. * **Kariuki JK**, Gibbs BB, Rockette-Wagner B, Cheng J, Burke LE, Erickson KI, Kline, CE, Mendez, DD, Sereika, SM. Vicarious Experience in Multi-Ethnic Study of Atherosclerosis (MESA) Is Associated with Greater Odds of Attaining the Recommended Leisure-Time Physical Activity Levels. *Int J Behav Med* [Internet]. 2021 Jan 12 [cited 2021 Feb 23]; Available from: <https://pubmed.ncbi.nlm.nih.gov/33438163/>
11. * Kline CE, Chasens ER, Bizhanova Z, Sereika SM, Buysse DJ, Imes CC, **Kariuki, JK**, Mendez, DD, Chasens, E, & Burke, LE. The association between sleep health and weight change during a 12-month behavioral weight loss intervention. *Int J Obes* [Internet]. 2021 Jan 7 [cited 2021 Feb 23];1–11. Available from: <https://www.nature.com/articles/s41366-020-00728-8>
12. *Burke, L. E., Sereika, S. M., Parmanto, B., Beatrice, B., Cajita, M., Loar, I., Pulantara, I. W., Wang, Y., **Kariuki, J.**, Yu, Y., Cedillo, M., Cheng, J., & Conroy, M. B. (2020). The SMARTER Trial: Design of a trial testing tailored mHealth feedback to impact self-monitoring of diet, physical activity, and weight. *Contemporary Clinical Trials*, 91. <https://doi.org/10.1016/j.cct.2020.105958>
13. ***Kariuki JK**, Gibbs BB, Davis KK, Mecca LP, Hayman LL, Burke LE. Recommendations for a Culturally Salient Web-Based Physical Activity Program for African Americans. *Transl J Am Coll Sport Med* [Internet]. 2019;4(2). Available from: https://journals.lww.com/acsm-tj/Fulltext/2019/01150/Recommendations_for_a_Culturally_Salient_Web_Based.1.aspx
14. **Kariuki JK**, Yamnia CI, Imes CC, Weiss PM, Engberg SJ. The impact of lifestyle modification on absolute cardiovascular disease risk. *JBISIRIR-2017-003847*. March 2019;1. doi:10.11124/JBISIRIR-2017-003847
15. ***Kariuki JK**, Gona P, Leveille SG, Stuart-Shor EM, Hayman LL, Cromwell J. Cost-effectiveness of the non-laboratory based Framingham algorithm in primary prevention of cardiovascular disease: A simulated analysis of a cohort of African American adults. *Prev Med (Baltim)*. December 2017. doi:10.1016/j.ypmed.2017.12.001.
16. ***Kariuki JK**, Stuart-Shor EM, Leveille SG, Gona P, Cromwell J, Hayman LL. Validation of the nonlaboratory-based Framingham cardiovascular disease risk assessment algorithm in the Atherosclerosis Risk in Communities dataset. *J Cardiovasc Med (Hagerstown)*. October 2017;1. doi:10.2459/JCM.0000000000000583.
17. Deyrup MM, **Kariuki J**, Mullins T, Joseph H, Minihan B. Digital Trends and the Global Library Community. *Int Inf Libr Rev* [Internet]. 2016 Jan 2 [cited 2019 Jan 20];48(1):31–6. Available from: <https://www.tandfonline.com/doi/full/10.1080/10572317.2016.1146039>
18. **Kariuki JK**, Stuart-Shor EM, Leveille SG, Hayman LL. Methodological challenges in estimating trends and burden of cardiovascular disease in sub-Saharan Africa. *Cardiol Res Pract*. 2015; 2015:921021. doi: 10.1155/2015/921021 [doi].
19. **Kariuki, J. K.**, Stuart-Shor, E. M., Leveille, S. G., & Hayman, L. L. (2013). Evaluation of the performance of existing non-laboratory based cardiovascular risk assessment algorithms. *BMC Cardiovascular Disorders*, 13, 123-2261-13-123. doi:10.1186/1471-2261-13-123; 10.1186/1471-2261-13-123

20. **Kariuki JK**, Stuart-Shor EM, Hayman LL. The concept of risk as applied to cardiovascular disease. *J Cardiovasc Nurs*. 2013; 28(3):201-203. doi: 10.1097/JCN.0b013e31828c3158; 10.1097/JCN.0b013e31828c3158.
21. *Muchira J, Stuart-Shor E, **Kariuki J**, Mukuna A, Gakage L, Ndigirigi I, Mutuma V, Karani A. Distribution and characteristics of risk factors for cardiovascular-metabolic disease in a rural Kenyan community. *International Journal of Africa Nursing Sciences*. 2015;3: 76-81 DOI: <http://dx.doi.org/10.1016/j.ijans.2015.09.002>

Abstracts

1. **Kariuki, J. K.**, Bizhanova, Z., Sereika, S. M., Conroy, M. B., Parmanto, B., Beatrice, B., Loar, I., Cheng, J., Pulantara, I. W., Wang, Y., Cedillo, M., Signh, A., & Burke, L. E. (2021). Abstract 12776: Neighborhood Walkability is Not Associated With Attaining Recommended Physical Activity in a Behavioral Weight Loss Trial Testing Remotely Delivered Feedback Messages | *Circulation*. *Circulation*. https://www.ahajournals.org/doi/abs/10.1161/circ.144.suppl_1.12776
2. Bizhanova, Z., Sereika, **S. M.**, **Kariuki, J. K.**, Conroy, M. B., Books, M., Rockette-Wagner, B., Cheng, J., Beatrice, B., Loar, I., Wang, Y., Pulantara, I. W., Parmanto, B., Cedillo, M., & Burke, L. E. (2021). Abstract 13075: Initial Physical Activity Level is a Strong Predictor of Adherence to the Physical Activity Goal: A Secondary Analysis of the SMARTER Weight Loss Trial | *Circulation*. *Circulation*. https://www.ahajournals.org/doi/10.1161/circ.144.suppl_1.13075
3. **Kariuki, J. K.**, Bizhanova, Z., Rockette-Wagner, B., Gibbs, B. B., Sereika, S. M., Kline, C., Erickson, K., Mendez, D., Pulantara, I. W., Cheng, J., & Burke, L. E. (2021). 231-OR: Neighborhood Walkability Is Associated with Prediabetes in a Behavioral Weight Loss Study. *Diabetes*, 70(Supplement 1), 231-OR. <https://doi.org/10.2337/db21-231-or>
4. Burke, L. E., Sereika, S. M., Bizhanova, Z., Parmanto, B., **Kariuki, J.**, Beatrice, B., Loar, I., Cheng, J., Pulantara, I. W., Wang, Y., Cedillo, M., & Conroy, M. (2021). Abstract MP15: Promoting Lifestyle Change Via Real-time Feedback: Short-term Weight Loss Outcomes In The Smarter Trial. *Circulation*, 143(Suppl_1). https://doi.org/10.1161/CIRC.143.SUPPL_1.MP15
5. Imes, C. C., **Kariuki, J.**, Chasens, E., Scott, P., & Yang, K. (2021). Abstract P160: Associations Between Metabolic Syndrome Severity And Race/ethnicity, Socioeconomic, And Lifestyle Factors. *Circulation*, 143(Suppl_1). https://doi.org/10.1161/circ.143.suppl_1.p160
6. **Kariuki, J. K.**, Rockette-Wagner, B., Cheng, J., Burke, L. E., Erickson, K., Mendez, D., Sereika, S. M., & Barone Gibbs, B. (2020). Abstract MP18: Vicarious Experience Trumps Neighborhood Characteristics in Predicting Leisure-time Physical Activity in the Multi-ethnic Study of Atherosclerosis Dataset. *Circulation*, 141(Suppl_1). https://doi.org/10.1161/circ.141.suppl_1.mp18
7. Kline, C. E., Bizhanova, Z. H., Sereika, S. M., Buysse, D., Imes, C. C., **Kariuki, J.**, Mendez, D., Chasens, E., & Burke, L. E. (2020). Abstract MP21: Better Sleep Health is Associated With Greater Weight Loss During a 12-month Behavioral Weight Loss Intervention. *Circulation*, 141(Suppl_1). https://doi.org/10.1161/circ.141.suppl_1.mp21
8. **Kariuki JK**, Bermundez A, Kilkelly T, et al. Abstract P124: Comparative Evaluation of African Dance versus a Cultural Educational Program in Mitigating Cardiovascular Risk Among REACT! Study Participants. *Circulation*. 2019;139(Suppl_1). doi:10.1161/circ.139.suppl_1.P124

9. **Kariuki JK**, Stuart-Shor EM, Leveille SG, Gona P, J. Cromwell G. Validation of the Non-Laboratory Based Framingham Algorithm in the Atherosclerosis Risk in Communities Dataset. *Circulation*. 2016;134: A14620
10. **Kariuki, J. K.**, Stuart-Shor, E., Muchira, J., Laventure, L., Mitzman, K., Godfrey, M., Curan, B., Kimani, S., Kiarie, P. Comparative Evaluation of Three Non-Laboratory Based Risk Assessment Tools in Characterizing Absolute Risk for Cardiovascular Disease in a Kenyan Sample. New England Science Symposium poster session. Harvard Medical School. April 6, 2014.
11. **Kariuki, J. K.**, Stuart-Shor, E. M., Volkova, A., Golden, D., Halliday, J., Kimani, S., Muchira, J. & Zhang, L. "Implementing Global Risk Assessment in Resource-Constrained Primary Care Settings: Kenya." American Heart Association Scientific Sessions, Dallas, Texas.
12. **Kariuki, J. K.**, Stuart-Shor, E. M., Demita, J., Golden, D., Halliday, J., Kimani, S., Muchira, J. & Zhang, L. "Global Risk Assessment of Cardiovascular Disease in Resource Constrained Settings: Kenya." The 25th Annual Eastern Nurses Research Society Scientific Sessions, Boston, MA, April 19, 2013.
13. Walsh, J. H., **Kariuki, J. K.**, Stuart-Shor, E. M. "The Meaning of Cross-Cultural Service learning for Nursing Students: Kenya Heart and Sole (KHAS)." 25th Annual Eastern Nurses Research Society Scientific Sessions, Boston, MA, April 19, 2013.
14. **Kariuki, J.**, Kamau M, MacPherson A, McCarey J, DeMita J, Brown K, Sayer S, Ndigirigi I, Kiarie P, Stuart-Shor E, Karani A. *Hypertension Awareness, Treatment and Control in Kenya*. New England Science Symposium. Harvard Medical School. April 1, 2012.
15. Stuart-Shor E, **Kariuki, J.**, Kamau M, MacPherson A, McCarey J, DeMita J, Brown K, Sayer S, Ndigirigi I, Kiarie P, Karani A. *Distribution of CV Risk Factors in a convenience sample of community dwelling Kenyans*. World Congress of Cardiology scientific sessions, oral presentation. UAE, Dubai. April 18-21st 2012.
16. Stuart-Shor E, **Kariuki, J.**, Chateaufneuf J, Kimani S, Karani A. *Global Risk Assessment in Resource Constrained Countries: Kenya Heart and Sole*. Preventive Cardiovascular Nurses Association 18th Annual Symposium. April 12-14th 2012.
17. DeMita J, Sayer S, Suyematsu M, **Kariuki, J.**, Kamau M, Stuart-Shor E. *Assessing Chest Pain: Results from Five Communities in Kenya. Kenya Heart and Sole Afya Njema Project*. Eastern Nursing Research Society 24th annual scientific sessions poster session. New Haven. March 28-30th.

Media Coverage

1. Doheny, K., & Rodriguez, J. (2021, December). Walkable Neighborhoods May Reduce Risk of Developing Prediabetes. *Endocrineweb for Healthcare Professionals*. <https://www.endocrineweb.com/professional/pre-diabetes/walkable-neighborhoods-may-reduce-risk-developing-prediabetes>

Invited Podium Presentations

International/National

1. **Kariuki, J. K.**, (Nov 2021): Neighborhood Walkability Is Associated with Prediabetes in a Behavioral Weight Loss Study. Podium presentation at American Diabetes Association Annual scientific conference.

2. **Kariuki, JK.** (April 2020): The Active You: Technology Pilot Study. Presented at the NHLBI Programs to Increase Diversity among Individuals Engaged in Health-Related Research (PRIDE-CVD) webinar.
3. **Kariuki, JK.** (March 2020): Vicarious Experience in MESA Increases the Odds of Attaining the Leisure-Time Physical Activity Recommended by the Guidelines. Moderated poster at the American Heart Association Epi/Lifestyle sessions, Phoenix, AZ
4. **Kariuki, JK.** (Sept 2018): Web-Based Exercise Programs: The African Americans' Needs. The State of the Science Congress on Precision Health organized by the Council for the Advancement of Nursing Science, Washington DC.
5. **Kariuki, JK.** (Nov 2016): The Validity of the Non-lab Based Framingham Algorithm in Atherosclerosis Risk in Communities (ARIC) Dataset. American Heart Association Scientific Sessions, New Orleans, Louisiana.
6. **Kariuki, JK.** (October 2014): Addressing the role of nursing in the prevention of cardiovascular disease and stroke. Preventive Cardiovascular Nurses Association Global Nursing Leadership Forum (GNLF), New York.
7. **Kariuki, JK.** May 2014: Methodological challenges in estimating trends and burden of cardiovascular disease in sub-Saharan Africa. International Academy of Life Sciences/Biomedical Sciences Exchange Program (IALS/BMEP) conference, Boston.

Regional

8. **Kariuki, JK.** (April 2018): Challenges and Considerations in the Use of Research Databases Symposium. Eastern Nursing Research Society 30th Annual Scientific Sessions in Newark, New Jersey

Local

9. **Kariuki, JK.** (Oct 2021): What makes the exercise pill so hard to swallow? The role of psychosocial barriers related to obesity. *Biological and Health Psychology Pro Seminar Series at University of Pittsburgh Psychology Department*
10. **Kariuki, JK.** (Feb 2020): Leveraging Open-Source Technologies to Promote Physical Activity. *Pitt Mobile Sensing + Health (MoSHI) seminar*
11. **Kariuki, JK.** (Dec 2019): Sociodemographic predictors and cardiovascular correlates of age-related cognitive impairment in mid-life and elderly community dwelling Kenyans. *Pitt 2nd Annual Healthy Lifestyle Institute Summit*
12. **Kariuki, JK.** (Feb 2019): My Path to Developing the PATH Intervention. *University of Pittsburgh School of Nursing T32 Meeting*
13. **Kariuki, JK.** (May 2016): Making Cardiovascular Disease Risk Assessment Quick and Easy: The Validity and Cost-effectiveness of the Non-Lab Based Framingham Algorithm. *PhD Scholarly Dialogues, Office of Research, College of Nursing and Health Sciences, University of Massachusetts Boston.*
14. **Kariuki, JK.** (April 2014): Lighting the way for the future: Making universities best for the world. *TEDx UMass Boston.*
15. **Kariuki, JK.** (November 2013): Global risk assessment of cardiovascular disease in Kenya's resource constrained primary care settings. *PhD Scholarly Dialogues, Office of Research, College of Nursing and Health Sciences, University of Massachusetts Boston.*

16. **Kariuki, JK.** (April 2012): Promoting nursing education and practice in developing countries: Open Access for Africa initiative. *PhD Scholarly Dialogues, Office of Research, College of Nursing and Health Sciences, University of Massachusetts Boston* (Presented with George Hart, former associate librarian Healey library).

Other Publications

Doctoral Dissertation Title: External validation and cost effectiveness analysis of the non lab-based Framingham cardiovascular disease risk assessment algorithm in the Atherosclerosis Risk in Communities dataset

Thesis, Dissertation, and Mentoring

International Visiting Scholars

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| 1. Li Gao, PhD | 2019-2020 |
| Capital Medical University, China | |

PhD Dissertation

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| 1. Zhadyra Bizhanova, MBChB, MPH | 2016 -2021 |
| Title: Identifying Predictors of Adherence to the Physical Activity Goal in a mHealth Weight Loss Trial | |
| Role: Committee member | |
| 2. Mohammed Bu Saad, MD, MPH | 2016 -2021 |
| Title: The role of the built environment on weight changes and cardiometabolic outcomes among lifestyle modification intervention's participants | |
| Role: Committee member | |
| 3. Xiaojun Shi, BSN, RN | 2017 -2022 |
| Title: Pain Management Strategies for Knee Osteoarthritis: Use, Intention to Use, and Differences in Pain and Arthritis Pain Self-Efficacy | |
| Role: Committee member | |

DNP Capstone

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| 1. Annemarie Carr, BSN, RN | 2018 - 2021 |
| Title: Standardizing A Process to Identify IPPE/AWV-Eligible Patients and Facilitate Uptake of Preventive Services in the Primary Care Practice | |
| Role: Co-chair | |
| 2. Julia Luczkow, BSN, RN | 2020 - 2022 |
| Title: Introduction of an Evidence-Based Toolkit to Increase Physical Activity in Sedentary Community-Dwelling Older Adults | |
| Role: Co-chair | |

BSN Honors Thesis

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| 1. Long Tran | 2018 – 2021 |
| Sleep, Pain, Global Health, and Functional Outcomes in Adults Age 65 or Older | |
| Role: Committee member | |
| 2. Yuchen Zhang | 2018 – 2021 |
| “Effect of a Bladder Control Self-Management Program Delivered Through a Health Kiosk” | |
| Role: Committee member | |

Research

Ongoing Research Support

1R35AG072307-01 Kariuki (Co-I); Kirk Erickson (Mentor PI of the parent grant)

Title: Physical Activity and Dementia: Mechanisms of Action

Funding Agency: NIH/NHLBI

Years Inclusive & Percent Effort: May 2021–April 2026 at 10% (yrs 3-4)

Effort Total Amount Awarded: \$4,308,554

CTSI's Research Initiative for Special Populations (CRISP) Pilot Program, Kariuki (PI)

Title: The feasibility and acceptability of a web-based physical activity for the heart (PATH) intervention designed to reduce the risk of heart disease among inactive African Americans

Funding Agency: University of Pittsburgh Clinical and Translational Science Institute

Years Inclusive and Percent Effort: Jan 1, 2020 – Dec 31, 2021 at 10% Effort

Total Amount Awarded: \$25,000

Ruth Perkins Kuhn Grant, Kariuki (PI)

Title: Feasibility and preliminary efficacy of a novel YouTube based physical activity intervention in overweight and obese adults with prediabetes

Funding Agency: University of Pittsburgh Center for Research and

Evaluation Years Inclusive and Percent Effort: Nov 1, 2019 – Dec 30, 2021 at

20% Effort Total Amount Awarded: \$33,286

Pitt Healthy Lifestyle Institute Pilot Grants, Kariuki (PI)

Title: Sociodemographic predictors and cardiovascular correlates of age-related cognitive impairment in mid-life and elderly community dwelling Kenyans

Funding Agency: University of Pittsburgh Healthy Lifestyle Institute

Years Inclusive and Percent Effort: Nov 1, 2019 – December 31, 2021 at 10% Effort

Total Amount Awarded: \$20,000

Pitt Hewlett International Grant, Kariuki (PI)

Title: Sociodemographic predictors and cardiovascular correlates of age-related cognitive impairment in mid-life and elderly community dwelling Kenyans

Funding Agency: University of Pittsburgh Center for International Studies

Years Inclusive and Percent Effort: Nov 1, 2019 – December 31, 2021

Total Amount Awarded: \$3,500

Completed Research Support

R01 HL131583 Diversity Supplement, Kariuki (PI); Lora Burke (Mentor PI of the parent grant)

Title: Promoting Lifestyle Change via Tailored mHealth To Improve Health

Funding Agency: NIH/NHLBI

Years Inclusive and Percent Effort: Jan 2019 – April 2021 at 50% Effort

Total Amount Awarded: \$271,737

NHLBI SRP, Kariuki (PI)

Title: Pilot testing the functionality and usability of a web-based Physical Activity for the Heart (PATH) intervention

Funding Agency: NHLBI Programs to Increase Diversity among Individuals Engaged in Health-Related Research (PRIDE) Small Research Grants Program

Years Inclusive and Percent Effort: Nov 1, 2019 – Sept 30, 2020 at 5% Effort

Total Amount Awarded: \$11,125

CDRF 9014018, Kariuki (PI)

Title: Development of a Culturally Relevant Web-based Intervention to Promote Physical Activity among African Americans at High Risk for Cardiovascular Disease Funding Agency: University of Pittsburgh Central Research Development Fund Years Inclusive and Percent Effort: July 2017 to June 2018 at 33% Effort. Total Amount Awarded: \$15,997

14PRE19050019 Predoctoral Fellowship, Kariuki (PI)

Title: External validation and cost effectiveness analysis of the non lab-based Framingham cardiovascular disease risk assessment algorithm in the ARIC dataset

Funding Agency: American Heart Association

Years Inclusive and Percent Effort: Jan 2014 to Dec 2015 at 50% Effort

Total Amount Awarded: \$46,000

International Research Project Seed Funding, Kariuki (PI)

Title: Implementation of Global Risk Assessment as part of a Comprehensive Cardiovascular Risk Reduction and Treatment Program in Kenya

Funding Agency: University of Massachusetts Boston Office Global Affairs

Years Inclusive: Feb 2014 to Feb 2015

Total Amount Awarded: \$1,500

Brenda S. Cherry Award for a Doctoral Student, Kariuki (PI)

Title: Primary Care Clinicians' Awareness, Implementation, and Attitudes Regarding Global Risk Assessment: Kenya

Funding Agency: Sigma Theta Tau-Theta Alpha Chapter 191 of Sigma Theta Tau

Years Inclusive: May 2013 to May 2014

Total Amount Awarded: \$5,000

Grant Reviewer

2017 University Center for Social and Urban Research (UCSUR) Manners Research Development Grant

2020 Pitt Momentum Funds Seeding Grants

2020 NHLBI PRIDE Program Mock Study Section

Manuscript Reviewer

2016- Journal of American Heart Association (JAHA)

2017- Heart & Lung: The Journal of Acute and Critical Care

2018- Journal of Cardiovascular Medicine (JCM)

2018- Geriatric Nursing Journal

2018- Annals of Medicine

2020- Journal of Medical Internet Research

2021 Behavioral Medicine

2021- Lancet Public Health

Teaching

Primary Teacher

| Term Years | Course Title and Number | No. of Students | Level | Didactic or Clinical |
|----------------------------|---|-----------------|----------------------------|----------------------|
| Spring 2022 to date | NURNP 2528: Seminars in Geriatric Care | 3 | DNP students | Didactic |
| Spring 2022 to date | NUR 3037: DNP Project Clinical | 2 | DNP students | Clinical |
| Spring 2022 to date | NUR 1138: Community Health Clinical | 8 | BSN students | Clinical |
| Summer 2021 to date | NURNP 3038: DNP NP Role Practicum | 3 | DNP students | Clinical |
| Summer 2021 to date | NURNP 2526 Management Geriatric Health Theory | 20 | DNP and pharmacy students | Didactic |
| Summer 2017 Spring 2021 | NUR 1054 Nursing Care of Older Adults | 67-120 | Third year BSN traditional | Didactic |
| Summer 2017 | NUR 1054 Nursing Care of Older Adults | 6 | Third year BSN students | Clinical |

Lecturer / Guest Lecturer

| Term Years | Course Title and Number | No. of Students | Level | Topic of Lecture |
|---|---|-----------------|----------|--|
| Spring 2021 | NUR 3292 Responsibilities and Activities of Scientists II | 8 | PhD | Conducting Pilot RCTs During COVID-19 Pandemic |
| Spring 2017 Spring 2018 Fall 2019 | NUR 2010 Health Promotion and Disease Prevention in Culturally Diverse Population | 30-50 | DNP/ PhD | Cardiovascular Disease Prevention |
| Spring 2018 | NUR3289 Intervention Development | 8 | PhD | Developing Behavioral Interventions |

| | | | | |
|-------------|---|-------|--------------------------------|--|
| Spring 2017 | NUR 1829 Contemporary Issues in Cross-Cultural Health Care: Intervention Strategies for Health and Cultural Competence | 20-30 | Masters (interdisciplinary) | Cultural and Ethnic Variations in Health and Illness |
|-------------|---|-------|--------------------------------|--|

Curriculum Development/Course Review

| Term | Course Title | Role | Program | Section |
|------------------------------------|--|-------------------------------------|----------------|----------------|
| Fall 2020 and Spring 2021 | NUR XXXX: Introduction to Diversity, Equity, and Inclusion in Healthcare | Curriculum development member | Graduate | Didactic |
| Fall 2019 and Spring 2020 | BSN – Honors Curriculum | Curriculum review member | BSN | Didactic |
| Summer and Fall 2019 | NUR 0053: Introduction to Inclusion, Equity and Diversity in Health Care | Course review member | BSN | Didactic |

Service

University Committees

May 2018 - Pro Tem Member, University Senate Community Relations Committee

School Committees

2021 DNP Council member and Health and Community System Department

2019 – Honors committee member

2019 - Diversity Committee Co-chair

2017 - Diversity Committee member

2016 -2021 BSN Council member and Health and Community System Department Representative

Other Professional Activities

2021-2023 – Member, American Heart Association Lifestyle Physical Activity Committee of the Council on Lifestyle and Cardiometabolic Health

2021-2023 – Member At Large on the CVSN Awards Committee of the Council on Cardiovascular and Stroke Nursing

2020 –2022 Committee member, American Heart Association Early Career Committee of the Council on Lifestyle and Cardiometabolic Health

2017 –2021 Martha Hill Awards Subcommittee of the American Heart Association CVSN Member