

Curriculum Vitae

Name: Jacob Kigo Kariuki

Business Address: 3500 Victoria St, PA 15261

E-Mail Address: kigok@pitt.edu

Business Phone: 412-624-8149

Business Fax: 412-383-7293

Education and Training

Undergraduate

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

Graduate

| | | |
|-----------|---------------------------------------|---|
| 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 and Health Policy) |

Other Relevant Training

| | |
|---------------|--|
| 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**

| | | |
|----------------|--|-----------------------------|
| 2016 - Present | University of Pittsburgh School of Nursing, Pittsburgh | Assistant Professor |
| 2013 - 2014 | University of Massachusetts Boston College of Nursing and Health Sciences | AHA Predoctoral Fellow |
| 2011 - 2016 | University of Massachusetts Boston College of Nursing and Health Sciences | Research/Teaching Assistant |
| 2009 - 2011 | TumuTumu School of Nursing Kenya | Lecturer and Nurse Tutor |

Non-Academic/Clinical

| | | |
|-------------|--|----------------------------|
| 2015 - 2016 | BearHill Nursing & Rehabilitation Center Stoneham, MA | Part-time Staff Nurse (RN) |
| 2013 - 2016 | PSA Healthcare Brockton, MA | Part-time Staff Nurse (RN) |
| 2008 - 2009 | Coast General Provincial Hospital Kenya | Nursing Officer I (RN) |

Licensure and Certification

| | | |
|------------|--|-------------------------|
| 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

| | |
|----------------|---|
| 2010 – Present | Preventive Cardiovascular Nurses Association Member of the Global Nursing Leadership Forum (GNLF) |
| 2013 – Present | Eastern Nursing Research Society Member |
| 2013 – Present | Sigma Theta Tau International, Theta Alpha Chapter Honor Society Member |
| 2013 – Present | American Heart Association Member of the Martha Hill Awards Subcommittee of the Council on Cardiovascular and Stroke Nursing |

Honors

| | |
|------------|--|
| 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 |
| 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**, Gibbs BB, Davis KK, Mecca LP, Hayman LL, Burke LE. Recommendations for a Culturally Salient Web-based Physical Activity Program for African Americans. *Translational Journal of the American College of Sports Medicine (Philadelphia)*. In Press
2. **Kariuki JK**, Cortes IY, Imes CC, Weiss PM, Engberg, SJ. The Impact of Lifestyle Modification on Absolute Cardiovascular Disease Risk: A Systematic Review Protocol. *JBI Database of Systematic Reviews and Implementation Reports (Adelaide)*. In Press
3. ***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.
4. ***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.
5. **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].
6. **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
7. **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.
8. ***Muchira J**, Stuart-Shor E, **Kariuki J**, Mukuna A, Gakage L, Ndirigiri 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 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
2. **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.
3. **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.

4. **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.
5. 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.
6. **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 poster session. Harvard Medical School. April 1, 2012.
7. 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.
8. Stuart-Shor E, **Kariuki, J.**, Chateaneuf 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.
9. 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.

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

Research

Principal Investigator

Funding Agency: NIH/NHLBI

Title: Diversity Supplement based on R01 HL131583: Promoting Lifestyle Change via Tailored mHealth To Improve Health (PI, LE Burke)

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

Total Amount Requested: \$271,737

Status: Funded (Ongoing)

Funding Agency: NIH/ NCCIH

Title: R21/R33: Feasibility and Acceptability of a Web-based Physical Activity for the Heart (PATH) Program Designed to Promote Physical Activity Among Inactive African Americans

Years Inclusive and Percent Effort: Nov 2018- Nov 2023 at 30% Effort

Total Amount Requested: \$1,021,932

Status: Not funded (to be revised and resubmitted as an R21)

Funding Agency: University of Pittsburgh Central Research Development Fund

Title: R21/R33: Development of a Culturally Relevant Web-based Intervention to Promote Physical Activity among African Americans at High Risk for Cardiovascular Disease

Years Inclusive and Percent Effort: July 2017 to June 2018 at 33% Effort

Total Amount Requested: \$15,997

Status: Funded (Competed)

Funding Agency: American Heart Association

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

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

Total Amount Requested: \$46,000

Status: Funded (Competed)

Funding Agency: University of Massachusetts Boston Office Global Affairs

Title: International Research Project Seed Funding: Implementation of Global Risk Assessment as part of a Comprehensive Cardiovascular Risk Reduction and Treatment Program in Kenya

Years Inclusive: Feb 2014 to Feb 2015

Total Amount Requested: \$1,500

Status: Funded (Competed)

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

Title: Brenda S. Cherry Award for a Doctoral Student: Primary Care Clinicians' Awareness, Implementation, and Attitudes Regarding Global Risk Assessment: Kenya

Years Inclusive: May 2013 to May 2014

Total Amount Requested: \$5,000

Status: Funded (Competed)

Grant Reviewer

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

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

Unpublished Presentations

Invited Podium Presentations

International/National

1. **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.
2. **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.
3. **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.
4. **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) Student Conference, Boston.

Regional

5. **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

6. **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.
7. **Kariuki, JK.** (April 2014): Lighting the way for the future: Making universities best for the world. TEDx UMass Boston.
8. **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.
9. **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).

Teaching**Primary Teacher**

| Term Years | Course Title and Number | No. of Students | Level | Didactic or Clinical |
|-------------------|---------------------------------------|------------------------|---|-----------------------------|
| Summer 2017 | NUR 1054 Nursing Care of Older Adults | 25 | Second Term Accelerated 2nd Degree and Third year BSN | Didactic and clinical |
| Fall 2017 | NUR 1054 Nursing Care of Older Adults | 72 | Third year BSN and Second Term Accelerated 2nd Degree | Didactic |
| Spring 2018 | NUR 1054 Nursing Care of Older Adults | 88 | Third year BSN and Second Term Accelerated 2nd Degree | Didactic |
| Summer 2018 | NUR 1054 Nursing Care of Older Adults | 25 | Second Term Accelerated 2nd Degree | Didactic |
| Fall 2018 | NUR 1054 Nursing Care of Older Adults | 19 | Second Term Accelerated 2nd Degree | Didactic |
| Fall 2018 | NUR 1054 Nursing Care of Older Adults | 67 | Third year BSN traditional | Didactic |

Lecturer / Guest Lecturer

| Term Years | Course Title and Number | No. of Students | Level | Topic of Lecture |
|----------------------------|--|------------------------|-----------------------------|--|
| Spring 2017 Spring 2018 | NUR 2010 Health Promotion and Disease Prevention in Culturally Diverse Population | 30-50 | DNP and PhD | Cardiovascular Disease Prevention |
| 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 |

| | | | | |
|----------------|-------------------------------------|---|-----|---|
| Spring 2018 | NUR3289 Intervention Development | 8 | PhD | Developing Behavioral Interventions |
|----------------|-------------------------------------|---|-----|---|

Service

University Committees

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

School Committees

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

2017 - Diversity Committee member

Other Professional Activities

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

2017 - Volunteer in Medicine: Nurse Practitioner at FOCUS Pittsburgh Free Health Clinic