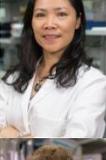


## Tenure and Tenure Track Faculty

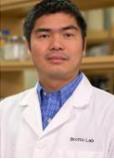
Researcher Name	Job Title	Department	Research Focus
 Ben Taleb, Ziyad	Assistant Professor	Kinesiology	My research focus is on smoking cessation and the epidemiology of tobacco use with a focus on investigating the health effects associated with exposure to emerging tobacco products, such as hookah and electronic cigarettes. My research involves the use of clinical laboratory models, epidemiological surveys, behavioral science and social media to guide the development of tobacco control policies.
 Boateng, Godfred	Assistant Professor	Kinesiology	My research focus is on the interconnections that exist between household food, water, and energy insecurity and associated implications for maternal, infant and child health. I am interested in understanding the proximal, distal and contextual factors that shape resource insecurity, particularly those that produce health disparities and inequities. One of the ways this is done is through the development of scales that enable the measurement and monitoring of resource insecurity and facilitates the implementation of sustainable solutions.
 Brothers, R. Matthew	Associate Professor Associate Chair of Graduate Programs in Exercise Science	Kinesiology	My research focus is on the investigation of mechanisms of impaired peripheral and cerebral vascular function in selected at-risk/diseased populations. In addition, I examine the impact of various acute interventional approaches on these mechanisms. This research bears implications for various physiologic conditions including thermoregulatory capacity, orthostatic tolerance, and risk for cardiovascular, neurological, and metabolic diseases.
 Brotto, Marco	Professor; George W. and Hazel M. Jay Professorship	Nursing	My research focus is on aging; bone-muscle crosstalk; sarcopenia and osteoporosis; biomarkers of musculoskeletal diseases; and muscle physiology.
 Brown, Kyrah	Assistant Professor	Kinesiology	My research focus is on racial/ethnic disparities in maternal health (e.g., maternal mortality and morbidity) and birth outcomes (e.g., infant mortality, prematurity). I am interested in examining the social and systems-level factors that influence the health status (e.g., cardiovascular health, reproductive health, mental health) of women of color across the life course. I am also interested in women's/maternal health care quality and safety.
 Cipher, Daisha	Associate Professor	Nursing	My research focuses are on: 1) quantitative quality indicators of nursing education, 2) outcomes research in clinical and medical settings, and 3) analyses of population-based survey health databases. My research in nursing education involves identifying factors associated with persistence in our undergraduate and graduate programs within the CONHI using regression modeling. My research in medical settings involves identifying factors associated with treatment success and extended survival using regression models and survival analysis. My research with survey health databases involves the generation of weighted estimates to report health statistics on the national level.
 Daniel, Kathryn	Associate Professor	Nursing	My research focus is on frail, multimorbid older adults and the technology applications, such as a prototype laboratory apartment environment with embedded sensor technology and robots, to support independence and safety in this population. I am also part of other investigator's work with older adults in medication safety (Xiao) and exercise interventions in heart failure (Haykowsky) where I bring my clinical skills and connections with older adults in the community.
 Fadel, Paul	Professor; Associate Dean for Research; Director, Clinical Translational Research	Kinesiology	My research focus is on the investigation of neural control of circulation at rest and during exercise in human health and disease with a specific emphasis on the sympathetic branch of the autonomic nervous system.
 Greaney, Jody	Assistant Professor	Kinesiology	My research focus is on investigating the mechanisms underlying neurovascular dysfunction in human depression, with the ultimate goal of identifying novel therapeutic intervention strategies to prevent, slow, or reverse depression-associated cardiovascular disease. Our laboratory utilizes a multidisciplinary, integrative, and translational research strategy that combines a variety of experimental techniques that enable the interrogation of physiological and pathophysiological mechanisms of neurovascular function in humans.
 Gu, Xiangli	Assistant Professor	Kinesiology	My research focus is on physical activity and motor behavior in minority and underserved children and emerging adults, with the aim to understand physical activity and health disparities through behavioral and neuropsychological levels of assessment. My research laboratory is conducting empirical research projects to investigate the effects of emerging technology-based (i.e., virtual reality) physical activity interventions on individual's brain health (i.e., depression, cognition, health-related quality of life) and movement behaviors (i.e., sedentary behavior, sleep, and physical activity) in the home, school, and community settings.

Researcher Name	Job Title	Department	Research Focus
 Keller, David	Professor; Associate Dean for Kinesiology	Kinesiology	My research focus is on cardiovascular physiology. Projects include: dynamic blood pressure control in African Americans, exercise-thermoregulation following prolonged exposure to simulated Lunar gravity and baroreflex function in patients with Multiple Sclerosis.
 Kindratt, Tiffany	Assistant Professor	Kinesiology	My research focus is on evaluating factors within and expanding Anderson's model of health services utilization to include the patient experience (specifically patient-provider communication and patient/family centered care). My current studies focus on unmasking disparities in health services among underrepresented minority groups (e.g. Arab Americans) and evaluating what qualities and modes of patient-provider communication are associated with health outcomes across the lifespan using national health surveys (e.g. Medical Expenditure Panel Survey).
 Merwin, Elizabeth	Dean of Nursing	Nursing	My research is focused on improving care for underserved and rural populations, particularly minorities and those from rural communities. My research centers on improving access and outcomes of care, reducing shortages of health professionals in rural and underserved areas and identifying strategies to increase the diversity within the health field.
 Nelson, Larry	Associate Professor	Kinesiology	My research focus is on the affective and physiological outcomes of a variety of physical education and youth development programs. My work has advanced service-learning models and active-learning strategies that cultivate adolescents' ability to think critically, solve-problems and grow self-awareness/self-control.
 Nelson, Michael	Associate Professor	Kinesiology	My research focus is on three common themes: (1) cardiac mechanics and ventricular function; (2) the cardio-metabolic syndrome; and (3) vascular regulation and neurovascular coupling.
 Pan, Zui	Associate Professor	Nursing	My research focus is on calcium signaling in cancer, muscle and other diseases. In particular, we study the pathophysiological role of store-operated calcium entry in these diseases and thus identify drug targets for novel effective treatments.
 Prisby, Rhonda	Associate Professor	Kinesiology	My research focus is on microvascular physiology and pathophysiology and its impact on bone biology. My lab examines the integrative nature of the vascular and skeletal systems in health and disease (e.g., advancing age, intermittent parathyroid hormone administration, surgical and drug intervention, etc.).
 Ricard, Mark	Professor	Kinesiology	My research focus is on improving human health by investigating the effects of joint movements and forces acting on the human body and how joint moments and forces can be modified to minimize the likelihood of injury or induce positive health outcomes.
 Seo, Yaewon	Assistant Professor	Nursing	My research focuses on symptom management (particularly, dyspnea), breathing pattern, functional status, quality of life, use of health care utilization and underlying bio-physiological mechanisms of how deep and slow breathing training to reduce dyspnea and improve functional status (e.g., cardiac baroreflex sensitivity, pulse wave velocity, etc.) in patients with heart failure.
 Smith, Jessica Grace	Assistant Professor	Nursing	My research focus is on understanding how nursing education, nursing skill mix, staffing ratios, and nurse work environments might be associated with patient outcomes and nurse job outcomes in rural hospitals. I also collaborate with colleagues to study antecedents and consequences of missed nursing care in NICUs. These relationships need to be understood to guide policy recommendations for safer healthcare.

Researcher Name	Job Title	Department	Research Focus
 Tamplain, Priscila	Associate Professor	Kinesiology	My research focus is on assessment, mechanisms, and interventions for motor development in typical and atypical populations, with a particular interest in children with Developmental Coordination Disorder (DCD) and associated conditions (e.g., Autism Spectrum Disorders).
 Trott, Daniel	Assistant Professor	Kinesiology	My research focus is on the integrative physiology of vascular function in health and disease and how the immune system, adipose tissue and blood vessels interact to mediate vascular dysfunction with hypertension, aging and metabolic abnormalities. Also, in how physical activity influences these systems to promote vascular health.
 Trowbridge, Cynthia	Associate Professor	Kinesiology	My research focus is on the role of therapeutic interventions including but not limited to exercise, manual therapy, superficial and deep heating/cooling, electrical nerve stimulation, laser, and dry needling on the biopsychosocial improvement of musculoskeletal pain and dysfunction. I am also interested in sport concussion education and knowledge transfer among stakeholders.
 Varanasi, Venu	Associate Professor	Nursing	My research focus is on the development of novel in situ methods of 3D printing to rebuild and reconstruct missing defects in bone and muscle. Our goal is to induce rapid bone healing such that these procedures can thought of as the same severity as dental fillings and make this current in-patient and long hospital stay procedure into an out-patient and heal at home procedure.
 Wang, Jing	Associate Professor	Nursing	My research focus is on statistical methodology and machine learning, multilevel models, and Bayesian statistics.
 Wilson, Judy	Associate Professor	Kinesiology	My research focus is on the effects of hyperbaric oxygen therapy as a tool to improve clinical outcomes, specifically stroke. I am also interested in the physiological responses of wheelchair athletes and able-bodied athletes, their differences and similarities.
 Xiao, Yan	Professor	Nursing	My research focus is on developing high impact innovations to improve the safety and reliability of healthcare through human factors methods and principles.
 Zhou, Jingsong	Professor	Kinesiology	My research focus is on understanding the molecular mechanisms underlying the neuromuscular dysfunction in amyotrophic lateral sclerosis (ALS) progression and to develop potential therapeutic means to treat ALS.

### Clinical and Research Faculty

Researcher Name	Job Title	Department	Research Focus
 Anderson, Cheryl	Associate Professor	Nursing	My research focus is on the prevalence of post-traumatic stress disorder (PTSD) and depression among mothers of neonatal intensive care unit (NICU) infants with the evaluation of expressive writing.

Researcher Name	Job Title	Department	Research Focus
 Barnes, Donelle	Associate Professor	Nursing	My research focus is working with Dr. Yaewon Seo on her symptom management studies of heart failure patients. Specifically, we are testing an intervention for shortness of breath in heart failure outpatients, with the goal of limiting their shortness of breath, and increasing their activities of daily living and physical activity.
 Behan, Deborah	Associate Clinical Professor	Nursing	My research focus is on the work environment of nurses and improved patient outcomes. My research includes a program to make nurse assignments according to acuity, robotics to assist nurses in caring for patients, robotics to improve patients health status, noise and sleep of patients, and augmented reality for nurses to learn donning of high level personal protective equipment (PPE) for Ebola.
 Dombrowsky, Thomas	Clinical Assistant Professor	Nursing	My research focus is on the factors that affect the functional status of older adults, professional identity formation of student nurses and new nurses, and the evolution of social networks among nursing students and new nurses.
 Marrelli, Mauro	Research Assistant Professor	Nursing	My research focus is on investigating malaria-induced myopathy, to determine the key cellular mechanisms of the muscle injury caused by malaria parasites by mapping a potential network of inflammation and oxidative stress molecules. My goal is to develop new treatments and cures for malaria and other devastating vector borne infectious diseases.
 Mo, ChengLin	Research Assistant Professor	Nursing	My research focus is on investigating signaling of lipid mediators, especially prostaglandin E2 (PGE2) and related lipid metabolites through cyclooxygenase-1 and -2 pathways, in skeletal muscle. In addition, my research also will cover the functions of Numb, an adaptor protein, in skeletal muscle.