



WELLSTAR
COLLEGE OF
HEALTH AND
HUMAN
SERVICES

2024

RESEARCH AND ENGAGEMENT DAY

APRIL 15, STUDENT CENTER



PROGRAM AT-A-GLANCE

APRIL 15, 2024

WELCOME, PODIUM 1

9:00 AM - 10:05 AM

POSTER SESSION 1

10:20 AM - 11:20 AM

PODIUM SESSION 2

11:20 AM - NOON

STUDENT RESEARCH MATCH

NOON - 1:00 PM

POSTER SESSION 2

1:00 PM - 2:00 PM

PODIUM SESSION 3

2:00 PM - 3:00 PM

PECHAKUCHA FACULTY
RESEARCH SPOTLIGHT

3:15 PM - 3:45 PM

AWARDS CEREMONY

3:45 PM - 4:00 PM

KEYNOTE ADDRESS

4:00 PM - 5:00 PM



PODIUM SESSIONS

SESSION ONE

PUBLIC SAFETY WELLNESS: OVERVIEW OF THE A.M.E.S. ORGANIZATIONAL HEALTH AND WELLNESS TRAINING MODEL

Bianca Channer, Katherine Moore, Phaina Dubuisson

LEVERAGING RESOURCES: DEVELOPING A TRAUMA-INFORMED IPE COURSE

Allison Garefino, Irene Barton, Melissa Osborne

HUMAN-COMPUTER INTERFACE TO BUILD AI FOR IDENTIFYING AND RESPONDING TO BEHAVIORAL HEALTH CALLS

Monica Nandan, Dominic Thomas, Md Abdullah Al Hafiz Khan, Yong Pei

THE UTILITY OF RELATIONAL PRACTICE: STORYTELLING, INTERSECTIONALITY, AND CLASS-BASED INEQUALITY IN GROWING UP POOR

Cameron Greensmith

SESSION TWO

BIOMECHANICAL EVALUATION OF A NOVEL, COMPLIANT LOW PROFILE PROSTHETIC FOOT

Laura Jones, Mark Geil

EFFECT OF MAXIMAL MENTAL EFFORT COUPLED WITH ELASTIC BAND TRAINING ON MUSCULAR STRENGTH AND PHYSICAL FUNCTION IN OLDER WOMEN

Kayla Anderson, Lacey Harper, Garrett Hester



podium (continued)

SESSION TWO (CONT'D)

CONSEQUENCES OF AFFECTIVE EVENTS WHICH LEAD
NURSING STUDENTS TO (DIS)TRUST AN INSTRUCTOR

Lynn Varagona

SESSION THREE

HARMONIZING PERSPECTIVES: A MULTIFACETED
THEORETICAL FRAMEWORK OF SELF-CARE

Lisa Reyes-Walsh, Megan Lee, Maureen Garringer,
Rachel Myers, Jenn Willett, Susan Beidler, Alexis
Whiddon, Kandice Porter, Susan Dyess

EFFECTS OF BLOOD FLOW RESTRICTION ON THE
VASCULATURE AND TOLERABILITY DURING A 2-WEEK
INTERVENTION

Daphney Carter, Brianna Cupp

UNDERSTANDING THE SOCIAL DRIVERS OF MENTAL
HEALTH: THE TOPOWA STUDY OF YOUNG WOMEN IN
KAMPALA, UGANDA

Monica Swahn

PechaKucha FACULTY SPOTLIGHT PRESENTERS

Brian Kliszczewicz

Chinomso Nwozichi

Denise Green



POSTER SESSIONS

SESSION ONE

VALIDATION OF A MARKERLESS MOTION CAPTURE SYSTEM FOR KNEE JOINT KINEMATICS: A PILOT STUDY

Zach Contois, Allison Roach (Hales, Johnson)

PATIENT REPORTED OUTCOMES ASSOCIATED WITH THE POWER KNEE AMONG EXPERIENCED AND INEXPERIENCED USERS: THE SIGNIFICANCE OF SOUNDS

Rachel Sanders, Nicholas Jansen, Will Ruark (Young, Herrin)

GENERATION Z NURSES: EXPLORING LEARNING, COMMUNICATION, AND SUPPORT NEEDS

Violet Riggle, Zaynab Khan, Peyton Dukes (Hedenstrom)

BIOMECHANICAL DIFFERENCES IN CRAWLING BETWEEN TYPICALLY DEVELOPING INFANTS AND INFANTS WITH LIMB LOSS

Larissa Brehm, Analise Oliver, Feby Takawy (Geil)

DON'T GIVE UP: THE TOPOWA STUDY OF MENTAL HEALTH TRAJECTORIES AMONG YOUNG WOMEN IN KAMPALA, UGANDA

Arthur Pena Aguilar (Swahn)

EVALUATION OF A NOVEL LAYERED LOW-PROFILE PROSTHETIC FOOT

Maggie Huss, Jasmyn Palmer (Geil)

THE INFLUENCE OF WRIST JOINT POSITION AND STABILIZATION ON BICEP FLEXION STRENGTH TESTING

Brooke Powell, Caitlin Welch (Kogler, Hester)

A SYSTEMATIC REVIEW OF THE IMPACT OF STRESS ON YOUNG ADULT WOMEN

Olivia Hauser (Sterling)

THE IMPACT OF STUDENT STRESS ON PHYSICAL WELLBEING

Isabelle Fevrier (Dyal)



POSTER SESSION TWO

DISPLACEMENT AND ANGULAR TRANSLATIONS CORRELATED WITH ORTHOSIS KNEE JOINT AXES MISALIGNMENT

Caleb Thompson, Russell Bohannon, Marques Kiggins (Kogler)

ASSESSING HOW EXISTING HEALTHCARE RESOURCES STRUGGLE TO ADDRESS HIGH INFECTIOUS DISEASE INCIDENCE IN KAMPALA, UGANDA

Jada Brown (Lyons)

UNDERSTANDING THE NEEDS OF GEORGIA'S HISPANIC/LATINX POPULATION REGARDING ADOLESCENT HEALTH

Aylin Diaz (Sterling)

THE INFLUENCE OF KNEE JOINT POSITION ON TALOCRURAL JOINT STIFFNESS

Paul Kokenes (Kogler)

UNDERGRADUATE HEALTHCARE AND ALLIED PROFESSIONAL STUDENTS EXPERIENCE LEARNING HOW TO MANAGE BEHAVIORAL SYMPTOMS IN PERSONS WITH ALZHEIMER'S DISEASE AND RELATED DEMENTIAS

Debora Blay (Adewuyi, Li)

POST TRAUMATIC GROWTH IN PALLIATIVE CARE NURSES DURING THE COVID-19 ERA

Aliyah Johnson (Hamash)

THE RELATIONSHIP BETWEEN BIRTH ORDER AND CRAWLING SPEED IN TYPICAL AND ATYPICAL INFANTS

Joyc'lynne Williams, Taylor Beard, Lisa Le (Geil)

THE INFLUENCE OF CARBON COMPOSITE FOOTPLATES ON TIMING PARAMETERS OF GAIT. A PILOT STUDY.

Kaitlin Jones, Alex Klein (Kogler)



**KEYNOTE
ADDRESS**

**SMITH L.
JOHNSTON III,
MD, MS, FASMA**

**SPACE MEDICINE -
TERRESTRIAL APPLICATIONS
FOR HUMAN HEALTH,
PERFORMANCE, AND LONGEVITY**

Dr. Johnston received a BS in biology in 1976 and a Doctor of Medicine in 1981 from Emory University. From 1984 to 1990, Dr. Johnston completed residencies in Internal and Aerospace Medicine from Wright State University, as well as an MS in Aerospace and Preventive Medicine. Dr. Johnston is a member of the Adjunct Clinical Faculty at the University of Texas Medical Branch in Galveston. He spent most of his career as a Medical Officer and Operational Flight Surgeon for NASA Medical Operations Branch at the NASA Johnson Space Center in Houston, Texas. Over the past 30 years he has supported the medical care of the active Astronaut Corps, their families, and the retired Astronauts. He has been the lead physician for the International Space Station (ISS) Emergency Medical System and Crew Return Vehicle development and has supported two Expedition ISS missions and over 25 Shuttle missions. Before retiring from NASA in 2019, he served as the Medical Director of NASA-JSC Aerospace and Occupational Medicine Clinics and was the lead of NASA's Astronaut Medical Selection and Retention Standards, and the Fatigue Management and Human Health, Performance, and Longevity Programs. Dr. Johnston was Board Certified in Aerospace Medicine from the American Board of Preventive Medicine in 2000 and 2010 and is an Emeritus Fellow of the Aerospace Medical Association. After retiring from NASA in 2019, he became the Chief Medical Officer for Axiom Space, Inc. and recently retired from that position in 2023.



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