AKIRI SURELY

https://akiri-surely.github.io/ https://www.linkedin.com/in/akiri-surely-0690a2132/ sakiri1@umbc.edu

EDUCATION

University of Maryland, Baltimore County (UMBC)

Expected May 2022

Ph.D., Human Centered Computing Specializations: Affective Computing

University of Maryland, Baltimore County (UMBC)

August 2018 - May 2020

M.S., Human Centered Computing

United States International University, Kenya (USIU-Africa)

May 2015 - July 2018

B.Sc., Applied Computer Technology Magna Cum Laude

RESEARCH EXPERIENCE

Affective Behavior Interaction Lab, UMBC

Principal Investigator, The Impact of COVID-19 on First Responders and Family Project

June 2020- Present

- Designed data collection survey instrument to investigate the stress phenomenon in EMS providers.
- Analyzed qualitative research data seeking to draw attention to the adverse circumstances faced by EMS
 providers in the arduous fight against the Sar-Cov-2 pandemic. Aim to publish to Frontiers Health
 Psychology journal.

Research Assistant, Stress Reflection Project

January 2019– Present

- Designed study protocol for collecting affective nonverbal behavior data during paramedic training simulations.
- Developed a Stress Reflection Training System based on multimodal data collected from senior paramedic training simulations.
- Conducted pilot studies to evaluate the benefits and accessibility of Stress Reflection system. Aim to publish to DIS, 2021.
- Investigated physiological synchrony in teams during paramedic training simulation. ICMI'20 Late-Breaking Paper .

Research Assistant, Understanding Body Expressions Along the Affective Dimensions in Paramedic Training Simulation Project July 2020– Present

- Evaluated and prepared software to rate body expressions along affective dimensions.
- Quantitative data analysis to identify associations and prediction among nonverbal behaviors. Aim to publish at ACII, 2021.

Sensor Accelerated Intelligent Learning Lab, UMBC

Research Assistant, EL Project

November – July 2018

• Performed literature review to investigate haptic neurofeedback approaches to augment preconscious perception and emotion regulation among nurses.

• Developed computational model to study the cost of emotional labor.

Smart and Connected Health

August - September 2018

- Performed literature review on wearable devices best suited for breast cancer survivors sensor monitoring.
- Carried out quantitative data analysis on previously obtained questionnaire responses and sensor monitoring.
- Created patient groups based on emerging patterns of medication taking behaviors.

Undergraduate Research, USIU-Africa

• Senior Project, DSLA

January - May 2018

- Carried out a feasibility study on the adoption of an automated process for land acquisition in Delta State, Nigeria.
- Developed and deployed on GitHub a mobile application that displays available government owned lands, allows users book appointment and check availability.
- Developed and deployed on GitHub administrative dashboard for the DSLA mobile application that allows admin to check analytics on users, respond to appointments and handle surveyor data.
- Africa's Talking Gaming Summer School:

May - August 2017

- Planned the logistics for designing squash, memory, and snake games.
- Developed and deployed user interfaces for three levels of difficulty for the games designed.

INDUSTRY EXPERIENCE

Software Development Intern, Unleashed Technologies

June 2019 - July 2019

• Learnt Drupal content management system and applied knowledge in conjunction with object-oriented PHP to build client software.

Software Engineering Intern, Interswitch Group Kenya

May 2018 - July 2018

- Designed and prototyped user interface designs for ongoing company projects.
- Investigated and gave feedback on user experience of legacy system, Autopay.

SKILLS

Programming

NASM Assembly language, PHP and SQL, Java, Web Front-end Development(HTML, CSS, XML and SCSS), and Interpreted Languages (Python, MATLAB, and JavaScript)

• Design

InVision, Inkscape, Sketch, Balsamiq

Databases

MySQL, Microsoft SQL Server

Languages

English, French, Swahili

AWARDS AND HONORS

- Anita Borg Masterclass Grant Recipient December 2020- December 2021,
- University of Maryland Baltimore County Graduate Assistantship January 2019-Present.
- United States International University-Africa, Dean's List- April 2015- May 2018.
- Presenter at the launch of the AppFactory Microsoft 4Afrika 2018.

ACADEMIC & PROFESSIONAL SERVICE

Reviewing

- Reviewer: Papers, ACM Conference on Human Factors in Computing Systems (CHI) 2021.
- Judge: Undergrad STEM Posters, Annual Louis Stokes Alliances for Minority Participation (LSAMP) USM Research Symposium 2021

Committees

- Organizing Committee: FIKA Meet-ups, Department of HCC, UMBC January 2020-Present.
- Electoral Committee: Information Technology Club (IT Club), USIU-Africa September 2017 May 2018.

COMMUNITY SERVICE & OUTREACH

• Student Volunteer: Interactive Systems Research Center (ISRC) Relaunch, UMBC, February 2020.

MEDIA COVERAGE

- Responses from EMS providers, family, friends sought for COVID-19 stress study, EMS1, August 2020.
- <u>UMBC researchers work to support first responders through NSF-funded stress-response technology</u>, UMBC News, January 2020.
- <u>UMBC's Jiaqi Gong receives \$1M NIH grant for wearable sensor to help breast cancer survivors maintain complex medication schedules, UMBC News, January 2020.</u>
- Tackling Healthcare with Blockchains: Launch of Microsoft 4 Afrika, USIU News, February 2018.

PROFESSIONAL AFFILIATIONS

- Graduate Women International (GWI).
- The Interactive Systems Research Center (ISRC).
- Center for Women in Technology (CWIT- UMBC).
- Summer School on Sensor-Based Behavioral Machine Learning (SAIL LAB USC)
- AnitaB.org MasterClass.