

George Hope Chidziwisano, Ph.D.

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EDUCATION

- 2018 – 2022: **Ph.D. in Information and Media (completed)**
Michigan State University, College of Communication Arts and Sciences
Advisor: Susan Wyche, Ph.D.
- 2016 – 2018: **MA Human Computer Interaction**
Michigan State University, College of Communication Arts and Sciences
Advisor: Susan Wyche, Ph.D.
- 2012 – 2015: **BSc in Computer Science and Physics**
University of Malawi, Chancellor College

ACADEMIC APPOINTMENTS

- 2021 – Present: **President's Postdoctoral Fellow**
Carnegie Mellon University
School of Computer Science
Human Computer Interaction Institute
Pittsburgh, Pennsylvania

RESEARCH AND INDUSTRY EXPERIENCE

- 2016 – 2021: **Graduate Research Assistant**
Michigan State University
Department of Information and Media
East Lansing, Michigan
- June – August 2020: **Data Science for Social Good Intern**
e-Science Institute
University of Washington
Seattle, Washington
- July – Sept 2020: **Access Computing Summer Program Intern**
Global Innovation Exchange
University of Washington
Seattle, Washington
- Spring 2017: **Graduate Teaching Assistant**
Michigan State University
Department of Information and Media
ITM 444: Information Technology Management
MI 361: Network Management and Security

- 2014 – 2015: **Network Administrator**
e-Communications Research Group (eCRG)
University of Malawi
- 2013 – 2014: **Course Instructor**
Chancellor College, Malawi
ABMA Certificate Short Courses
Introduction to e-commerce
Introduction to programming in Java
- 2011 – 2012: **Maranatha High School Teacher**
Teaching high school students physics and chemistry

AWARDS & RECOGNITION

- Google PhD Fellowship in HCI (2021)
Best Paper Award ACM COMPASS (2021)
Mary Louise Gephart Donnell Fellowship (2020)
Mark Levy ICT4D Scholarship (2020, 2019)
MSU Summer Research Funding (2018, 2019, 2020)
MSU Council of Graduate Students Award (2017)
Facebook & Google Sponsored Malawi TNM Smart Challenge Finalist (2016)

PUBLICATIONS:

Peer-Reviewed Conference Publications

- 2021: **Chidziwisano, G.**, Mariakakis, A., Wyche, S., Mafeni, B., Banda, E. 2021. “NkhukuProbe: Using a Sensor-Based Technology Probe to Support Poultry Farming Activities in Malawi,” *Fourth ACM conference on Computing & Sustainable Societies (COMPASS'21), Virtual*, (Acceptance Rate: 27%)
- 2020: **Chidziwisano, G.**, Wyche, S., Oduor E. 2020. “GridAlert: Using a Sensor-Based Technology to Monitor Power Blackouts in Kenyan Homes,” *ACM SIGCHI Conference on Human Factors in Computing Systems. (CHI '20)*, Honolulu, Hawaii, (Acceptance Rate: 24.3%)
- 2020: **Chidziwisano, G.**, Kisyula R., Wyche, S. 2020. “SmartChama: Designing Collaborative Digital Financial Systems for Chama Groups in Kenya,” *the 11th international conference on information and communication technologies and development. (ICTD '20), ESPOL, Ecuador*

2018: Wyche, S., **Chidziwisano, G.**, Uwimbabazi, F. and Simiyu, N. 2018. “Defamiliarizing the Domestic: Exploring “M-Kopa Solar” Use and Sustainable Practices in Rural Kenyan Households,” *First ACM conference on Computing & Sustainable Societies (COMPASS'18)*, Menlo Park, CA, Pgs. 35-46. (Acceptance Rate: 28%)

2018: **Chidziwisano G.**, Wyche S. 2018. “M-Kulinda: Using Sensor Based Technology Probes to Explore Domestic Security in Rural Kenya” *ACM SIGCHI Conference on Human Factors in Computing Systems. (CHI '18)*, Montreal, Canada, Paper No. 10. (Acceptance Rate: 26%)

Posters and Workshop Publications

2020: **Chidziwisano G.**, 2020. Investigating the Role of Sensor-Based Technologies in Resource-Constrained Households. *Companion of the 2020 ACM Conference on Computer Supported Cooperative Work and Social Computing. ACM. Minneapolis, MN, October 2020.*

2018: **Chidziwisano G.**, 2020. Exploring Potentials of Sensor-Based Technologies in Rural Kenyan Homes *HCIXB Symposium at CHI'18.*

Thesis

2018: **Chidziwisano, G. H.**, 2018. M-Kulinda: Exploring Domestic Security in Rural Kenya Using a Home Alert System, *Master's Thesis, Michigan State University, East Lansing, MI.*

SERVICE TO PROFESSION

CHI LBW 2021 AC (2021)

DIS Reviewer (2021)

CSCW 2021 Reviewer (2020)

UbiComp 2021 Reviewer (2020)

CHI Reviewer (2021, 2020, 2019)

CHI 2019 LBW Reviewer (2020, 2019)

INVITED PRESENTATIONS

2020: “GridAlert: exploring the role of sensor-based technologies for monitoring power blackouts in Kenya”, University of Toronto, Third Space Lab, July 1, 2020.

2019: “Malawi Tech Industry: an opportunity for youth empowerment”, Michigan State University, African Tea Time, October 10, 2019.

2019: “Exploring the role of sensor-based technologies for domestic security in Kenya”, IBM Research, Kenya, June 20, 2019.

- 2019: “Exploring the role of sensor-based technologies for domestic security in Kenya”, Jomo Kenyatta University of Agriculture and Technology, May 23, 2019.
- 2017: “Use of sensor-based technologies for agriculture and domestic security in Kenya”, University of Michigan, Computer Science and Engineering Department, August 02, 2017.
- 2016: “Sustainable development: insights from design research in rural Kenya”, Michigan State University, World Usability Day, November 10, 2016.
- 2015: “Internet Independent Source of Source of Information for accessing weather information in rural areas”, National Symposium on Environment, Climate Change and Disaster Risk Management, Lilongwe, Malawi, September 23, 2015.

SELECTED SOFTWARE & HARDWARE PRODUCTS

- 2019: GridAlert: Power Blackout Monitoring System
- 2018: Digital Financial System for Self-Help Groups in Kenya
- 2017: Sensor Based Home Security System for Rural Africa
- 2016: PaMsika Mobile App
- 2015: Internet Independent Source of Information
- 2015: Malawi TV White Space Database
- 2014: Zanyengo App
The mobile app allows rural farmers to access weather information through their mobile phones

SKILLS

Software skills: Python, Java, C++, C, Machine Learning, NLP, Deep Learning, JavaScript, PHP, R

Hardware Skills: Embedded Systems Development with Arduino, Raspberry PI, and Particle Electron

Language skills: English (fluent), Chichewa (native), Swahili (Basic understanding)