LYNN KIRABO, Ph.D.

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ACADEMIC APPOINTMENTS

HARVEY MUDD COLLEGE, CLAREMONT CA

07.2023 – Present   Maria M. Klawe Assistant Professor of Climate and Computer Science
Hixon Center for Climate and the Environment

EDUCATION

Doctor of Philosophy   HUMAN-COMPUTER INTERACTION
2017 – 2023   Carnegie Mellon University (Advisor: Dr. Aaron Steinfeld)

Master of Science   HUMAN-COMPUTER INTERACTION
2017 – 2022   Carnegie Mellon University

Master of Science   INFORMATION TECHNOLOGY
2013 – 2015   Carnegie Mellon University, Africa

Bachelor   INFORMATION TECHNOLOGY
2005 – 2008   Makerere University, Kampala Uganda

TEACHING EXPERIENCE

HARVEY MUDD COLLEGE, CLAREMONT CA

- Co-Instructor, Computing Practices, Projects, and People (*starting* Fall 2024)
- Instructor, Games for Climate Change Literacy (Spring 2024)
- Instructor, User-Centered Research & Evaluation (Fall 2023)

CARNEGIE MELLON UNIVERSITY, PITTSBURGH PA

- Co-Instructor, Transformational Game Design Studio – Climate Focus (Fall 2022)
- Co-Instructor, Transformational Game Design Studio (Fall 2021)
- Teaching Assistant, Programmable User Interfaces (Spring 2021)
- Teaching Assistant, User-Centered Research & Evaluation (Fall 2020)

CARNEGIE MELLON UNIVERSITY - AFRICA, KIGALI RWANDA

- Teaching Assistant, Java for Smartphone Development (Spring 2015)
- Teaching Assistant, Strategic Use of Digital Information (Fall 2014)

UNDERGRADUATE MENTORSHIP

RESEARCH COLLABORATORS

- **Summer '24**, Anfang, L. (ENG EA Emphasis, HMC '27), Flynn, M. (CS/Math, Grinnell '26), Gray, K. (CS, HMC '25), and Sandoval, E. (CS/Math, HMC '26)
- **Spring '24**, Sandoval, E. (CS/Math, HMC '26) and Wickham, G. (CS/Math, HMC '26)

CLINIC/SENIOR CAPSTONE

- **AY 2023/2024**. Fizzyo: A Dance-based Physical Therapy Mobile App for Children with Developmental Delays. Hamouda, M. (CS, CMC '24), Hsing, J. (CS, HMC '24), Sachdev, V. (CS, HMC '24), Tan-Aristy, J. (CS, HMC '24), and Yuan, A. (CS/Math, HMC '24). Client: ConcentricLife

PUBLICATIONS

C – Conference Proceedings; W – Workshop; P – Poster; A – ACM Article; J – Journal.

[W2] Dean, V., **Kirabo, L.**, Krause-Levy, S., and Taylor, C. (2024). Primarily Undergraduate Institution Faculty. In Proceedings of the 55th ACM Technical Symposium on Computer Science Education (SIGCSE '24), March 20-23, 2024. https://doi.org/10.1145/3626253.3635383

[C6] Reig, S., Carter, E.J., **Kirabo, L.**, Fong, T., Steinfeld, A., and Forlizzi, J. (2023). Dreaming Up Smart Home Futures: A Story Completion Study. In 32nd IEEE International Conference on Robot and Human Interactive Communication (RO-MAN 2023), Aug 28 - Aug 31, 2023 https://doi.org/10.1109/ro-man57019.2023.10309562

[DD] **Kirabo, L.**, 2023. Forging a Path Towards Equity in Smart Public Transit Systems (Doctoral dissertation, Carnegie Mellon University).

[C5] **Kirabo, L.**, Carter, E.J., Barry, D., and Steinfeld A. (2021). Priorities, Technology & Power: Co-Designing an Inclusive Transit Agenda in Kampala, Uganda. In 2021 ACM Conference on Human Factors in Computing Systems (CHI '21), May 8-13, 2021. Yokohama, Japan. https://doi.org/10.1145/3411764.3445168

[C4] **Kirabo, L.**, Namara, M., and McNeese, N. (2021). The Power of the Blue Tick: Ugandans' experiences and engagement on Twitter at the onset of the COVID-19 pandemic. In 2021 ACM African Human-Computer Interaction Conference (AfriCHI'21), March 8-12, 2021. Maputo, Mozambique. https://doi.org/10.1145/3448696.3448746

[W1] Citational Justice Collective, León, G.M., **Kirabo, L.**, Marisol Wong-Villacres, M., Karusala, N., Kumar, N., Bidwell, N., Reynolds-Cuéllar, P., Borah, P.P., Garg, R., Oswal, S.K., Chuanromanee, T., and Sharma, V. (2021). Following the Trail of Citational Justice: Critically Examining Knowledge Production in HCI. In Companion Publication of the 2021 Conference on Computer Supported Cooperative Work and Social Computing (CSCW '21). Association for Computing Machinery, New York, NY, USA, 360–363. https://doi.org/10.1145/3462204.3481732

[P2] Reig, S., Carter, E.J., **Kirabo, L.**, Fong, T., Steinfeld, A., and Forlizzi, J. (2021). Smart Agents and Devices of Today and Tomorrow: Surveying Use and Desires. In Proceedings of the 9th International Conference on Human-Agent Interaction (HAI '21), November 9–11, 2021, Virtual Event, Japan. ACM, New York, NY, USA, 6 pages.

[A3] Valencia, S. and **Kirabo, L.**, Twitter, COVID-19 & Disability: What Worked and What Didn't. XRDS: Crossroads, The ACM Magazine for Students 28, no. 2 (2021): 20-23.

[J1] Principe Cruz, E., **Kirabo, L.**, Carrington, P., & Hammer, J. (2021). Building Anti-Racist Futures at the CMU HCII: Recruiting BIPOC Graduate Students: Virtual Recruitment Event Design. (In press). BIPOC Literary Journal: The Colors We Carry.

[C3] Gleason, C., Valencia, S., **Kirabo, L.**, Wu, J., Guo, A., Carter, E.J., Bigham, J.P., Bennett, C.L., and Pavel, A. (2020) Disability and the COVID-19 Pandemic: Using Twitter to Understand Accessibility during Rapid Societal Transition. ACM SIGACCESS Conference on Computers and Accessibility. (ASSETS '20), October 26–28, 2020, Athens, Greece. https://doi.org/10.1145/3373625.3417023

[C2] Romero, O.J., Haig, A., **Kirabo, L.**, Yang, Q., Zimmerman, J., Tomasic, A., and Steinfeld, A. (2020). A Long-Term Evaluation of Adaptive Interface Design for Mobile Transit Information. In 22nd International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI '20), October 5–8, 2020, Oldenburg, Germany. https://doi.org/10.1145/3379503.3403536.

[C1] **Kirabo, L.**, Carter, E.J., and Steinfeld A. (2020) "You are asking me to pay for my legs": Exploring the Experiences, Perceptions, and Aspirations of Informal Public Transportation Users in Kampala and Kigali. In ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS'20), June 15–17, 2020, Guayaquil, Equador. https://doi.org/10.1145/3378393.3402269

[DC] **Kirabo, L.**, ""Our perspective matters." Using Universal Design Goals to Guide Technology Design in the Global South" ACM SIGACCESS Conference on Computers and Accessibility. Doctoral Consortium, (2019).

[A2] **Kirabo, L.**, "The one about resilience, energy, culture, and crafting." XRDS: Crossroads, The ACM Magazine for Students 26, no. 2 (2019): 60-63.

[A1] **Kirabo, L.**, "Global cultures and computing." XRDS: Crossroads, The ACM Magazine for Students 26, no. 2 (2019): 8-9.

[P1] **Kirabo, L.**, "HCI4D through the Lens of Assistive Technology Research Concepts" ACM SIGCAS Conference on Computing and Sustainable Societies. Poster, (2018).

WORK EXPERIENCE

MARIA M. KLAWE ASSISTANT PROFESSOR, HARVEY MUDD COLLEGE, 07.2023 – Present
This is a joint position between the Hixon Center for Climate and the Environment and the Computer Science department. Contribute to current and new course offerings and build a shared vision for climate and environmental studies at a liberal arts college of science and engineering

GRADUATE RESEARCH ASSISTANT, CARNEGIE MELLON UNIVERSITY, 08.2017 – 2023
Collaborate on and initiate research projects: currently working on exploring public transit in developing countries and data logs from a transit app deployed in the United States (Tiramisu)

UX RESEARCHER INTERN, INSTAGRAM, 06.2021 – 08.2021
Worked alongside UX Researchers to collaborate and contribute to products that have an impact

SOFTWARE ENGINEER, FENIX INTERNATIONAL (NOW ENGIE), 04.2017 – 07.2017
Working alongside Software Engineers and Software Product Manager as part of an agile process on the development of applications solutions to meet customer requirements Participating in the analysis and composition of requirements, design and architectural and component software features

JUNIOR SOFTWARE ENGINEER, FENIX INTERNATIONAL (NOW ENGIE), 09.2015 – 04.2017
Working alongside the Data Scientist to integrate models into core internal software FenixDB Reviewing code, writing documentation and following all test procedures

SOFTWARE ENGINEER INTERN, FENIX INTERNATIONAL (NOW ENGIE), 06.2015 – 09.2015
Become familiar with functionality and usage of the Fenix Software Infrastructure

RESEARCH INTERN, IBM RESEARCH AFRICA, 05.2014 – 08.2014
Worked alongside Senior Researchers to develop solutions that addressed Africa's grand

challenges; healthcare, water and sanitation, education, human mobility and agriculture

WEB DEVELOPMENT CONSULTANT, WORLD BANK, 09.2013 – 05.2014
Developed & launched web interface for a project that focused on improving land quality to sustain the performance of African countries

DIGITAL MEDIA MANAGER, HIVE COLAB, 03.2013 – 07.2013
Managed all online interfaces: website and social media presence
Hosted technology meetup & high school outreach events

INTERACTIVE CO-ORDINATOR, WATOTO, 08.2007 – 02.2013
Headed the Web development team & worked to ensure that all the web interfaces i.e. social media, global websites & individual country microsite are kept up to date

AWARDS

- HMC, Summer Enrichment Award, 2024
- NCFDD, Faculty Success Program, Summer '24 Cohort
- 1 Special Recognition for Outstanding Reviews, CHI 2024
- Siebel Scholar, Class of 2023 – awarded annually for academic excellence and demonstrated leadership to over 90 top students from the world's leading graduate schools
- Bucknell University, Aspiring PUI Workshop Inaugural Cohort 2022
- 2 Special Recognitions for Outstanding Reviews, DIS 2022
- CRA-URMD Grad Cohort for Underrepresented Minorities and Persons with Disabilities, 2020 (now CRA-IDEALS)
- CRA-W Grad Cohort for Women, 2020, 2019
- Facebook Vivid in Research Cohort, 2019
- Inaugural FLIP Fellow, 2018 (now Diversifying LEAdership in the Professoriate (LEAP) Alliance)
- Grace Hopper Scholar, 2018
- Valedictorian, Carnegie Mellon University Africa, 2015
- 1st Place: National Infographic Competition Rwanda, 2014
- UN Women Tuition Support, 2014 – 2015
- 3rd Place: National Infographic Competition Rwanda, 2013
- UN Women Tuition Support, 2013 – 2014
- iLocator: Best ICT Innovation - IEEE Exhibition Nairobi, 2008
- First Class Honors, Makerere University, 2008
- Vice Chancellor's List, Makerere University, 2008

SERVICE

- Program Committee
  - ACM SIGCSE Virtual (2024)
  - ACM ASSETS (2024)
  - ACM EAAMO (2024, 2021)
  - ACM ASSETS Experience Report (2023)
  - MD4SG (2020)
- Associate Chair
  - ACM CHI – Accessibility & Aging (2024)
  - ACM CHI Late Breaking Works (2020)
- Reviewer
  - ACM DIS (2024, 2022)
  - ACM CHI Late Breaking Works (2023, 2022, 2020)
  - ACM CHI (2023, 2021, 2020)
  - Springer JRIE (2019)
  - ID4A (2019)
  - ACM AfriCHI (2018)
- Student Volunteer
  - ACM CHI (2022)
  - ACM CHI Accessibility Taskforce (2022)
- Active Listener Cohort, Parables of AI in/from the Global South (2021)

LEADERSHIP

- Host, Games Café: Games for Climate Change Literacy, 2024
- Guest Play tester at Informal Feedback Session, Design Educational Games, 2023
- Student Representative, SCS Student Teaching Awards Committee, 2023
- Host, All About Tech Conversations: Applying to Grad School, 2021
- Host, All About Tech Conversations: Careers in Tech, 2021
- Facilitator, EAAMO'21 Regional socials - Africa, 2021
- HCII BLM Subcommittee, 2020
- African Graduate Student Association Webmaster, 2020
- XRDS Guest Editor, 2019
- Women in SCS PhD Committee, 2019
- OurCS Conference Committee, 2019
- HCII Graduate Student Assembly Representative, 2018
- HCII TroastMaster, 2017 – 2019
- Member: Young Researchers on ICT4D, 2017
- Judge: National Technovation Challenge, 2016

- Founding Member: InnovateHerAfrica, 2016
- CMU Africa R&D Officer, 2014
- Y-Save Donations Committee Secretary, 2012 - 2016
- Founding Member: Women of Technology Uganda, 2010

SPEAKING/TALKS/PANELS

- The Turing Way Fireside Chat: "Making Things More Accessible in Data Science" (Panel, 2024)
- Sacred Sistahs Inc. STEAM Conference for Middle and High School African American Girls. Our Climate, We are the Future (Keynote Speaker, 2024)
- Carnegie Mellon University, HCII Job Market Mentoring: New Faculty (Panel, 2024)
- CS-Teaching Rising Careers, SLAC & Teaching Track Job Market Panel (Panel, 2023)
- Carnegie Mellon University, Teaching in Academia & Job Market (Panel, 2023)
- Colgate University, Trust & Equity in Public Transit Technologies (Talk, 2022)
- Olin College of Engineering, Trust & Equity in Public Transit Technologies (Talk, 2022)
- University of Pittsburgh, Trust & Equity in Public Transit Technologies (Talk, 2022)
- Smith College, Trust & Equity in Public Transit Technologies (Talk, 2022)
- NC State University, Learning & Teaching CS Topics: Context Matters (Talk, 2022)
- Pomona College, Trust & Equity in Public Transit Technologies (Talk, 2022)
- Wellesley College, Trust & Equity in Public Transit Technologies (Talk, 2022)
- Harvey Mudd College, Trust & Equity in Public Transit Technologies (Talk, 2022)
- Fundi Girls Champions Talk Series, Pursuing Higher Education in STEM (Panel, 2022)
- Bucknell University, Trust & Equity in Public Transit Technologies (Talk, 2022)
- Bucknell University, CSCI 320 | Global Cultures & Computing (Lecture, 2022)
- Metatopia, Instructional Design - Teach the teacher (Panel, 2021)
- Carnegie Mellon University, 05430/630 | Global Cultures & Computing (Lecture, 2021)
- Women in Data Science, Appeared in Best of WiDS session (Video, 2021)
- STEMforHER, Investigating Algorithmic Bias in Sociotechnical Systems (Talk, 2020)
- Carnegie Mellon University, Africa, Investigating Equitable Mobility (Talk, 2020)
- Uganda Unites, The Power of Technology in C-19 Pandemic, (Webinar, 2020)
- Stanford University, Women in Data Science | Ethics in Data Science (Panel, 2020)
- TRB Annual Meeting, Investigating Equitable Mobility in Kampala Uganda (Talk, 2020)
- Carnegie Mellon University, OurCS Conference | Grad School Life (Panel, 2019)
- Transform Africa Summit, Youth Connekt (Panel, 2017)
- LeO Africa Economic Forum (Panel, 2017)
- National Technovation Challenge, Commencement Speaker (2017)