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International Conference on Information & Communication Technologies and Development

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Date	Start Time	End Time	Activity/Topic	Room	Speaker/Organizer
9-Dec-2024	8:00	8:30	Registration		Joan
			Introduction and Keynote Speech		
	8:30	8:45	Introduction	Main Hall	Prof Muliaro Wafula
	8:45	9:00	Welcome Remarks	Main Hall	Prof Dominic Byarubaga, CEO, AICAD
	9:00	9:30	Open Science Landscape in Africa	Main Hall	Prof Muliaro Wafula
	9:30	10:00	Keynote Speech	Main Hall	Hon Dr Margaret Nyambura, Cabinet Secretary, Ministry of ICT and Digital Economy
	10:00	10:30	Photo Session / Tea Break		
			Papers Session 1: Data Governance and Ethics		
	10:30	10:50	An In-depth Analysis of Caste-based Inequity in Welfare Allocation of the National Rural Employment Guarantee Scheme in India	Main Hall	Ashima Mittal, Chintan Sheth, Aaditeshwar Seth
	10:50	11:10	AI4Bangladesh: AI Ethics for Bangladesh - Challenges, Risks, Principles, and Suggestions	Main Hall	Tasmiah Tahsin Mayeesha, Farzana Islam, Nova Ahmed
	11:10	11:30	Data Protection in the Digital Age: A Comparative Analysis of Nigeria's NDPA and the EU's GDPR	Main Hall	Abasifio Okonko, Monday Akpakpan, Otuekong Ekpo
			Papers Session 2: Health and Well-being		
	11:30	11:50	Beyond Digital Interventions: Human-Centered Design for Adolescents' Type 1 Diabetes Management in LMICs	Main Hall	Susan Wyche, Jennifer M. Olson, Mary N. Karanu, Eric Omondi, Olorio Mike Endowo, Lilian W. Mathu
	11:50	12:10	The Ancient Elephant in the Room: Stigma, Gender Norms, and Cultural Barriers in Reproductive Care in Bangladesh	Main Hall	Hafsah Mahzabin Chowdhury, ATM Mizanur Rahman, Rokeya Akter, Zinnat Sultana, Syed Ishtiaque Ahmed, Sharifa Sultana
	12:10	12:30	Smart Sheba: Enhancing Elderly User Experience with LLM-Enabled Chatbots and User-Centered Design	Main Hall	Sharfuddin Khan Chisty, Anika Tahsin Miami, Jannatun Noor
	12:30	13:30	Lunch		

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			Open Sessions 1		
	13:30	15:00	Open Science Implementation Framework for Africa	Main Hall	Joseph Wafula, Agnes Kiragga
	13:30	15:00	Co-Design and Gender in ICT4D/ICTD Research: Panel	Room 1	Melissa Densmore, Dorothea Kleine, Fiona Ssozi, Sierra Van Riel, Livingston Ndigezza, Henrietta Nanyonjo
	13:30	15:00	AI and Society: Questions and Possibilities for the "Others"	Room 2	Faheem Hussain
	15:00	15:30	Break		
			Open Sessions 2		
	15:30	17:00	Reimagining ICTD Education	Main Hall	Susan Wyche
	15:30	17:00	Co-Design and Gender in ICT4D/ICTD Research: Toolkits	Room 1	Melissa Densmore, Dorothea Kleine, Fiona Ssozi, Sierra Van Riel, Livingston Ndigezza, Henrietta Nanyonjo
	15:30	17:00	Social Media and Cultural Dominance	Room 2	Benjamin Akinmoyeye
10-Dec-2024	8:00	8:45	Registration		Joan
	8:45	9:15	[Alternate time for Keynote Speaker]	Main Hall	
			Papers Session 3: Sustainability and Resource Monitoring		
	9:30	10:00	Scalable Monitoring of Tree Canopy Density and Height in India at High Spatial Resolutions	Main Hall	Dhruvi Goyal, Harsh Singh Chauhan, Aaditeshwar Seth
	10:00	10:20	TVWS Network Resilience in Rural Towns: How External Factors Impact Network Performance and Social Factors Impact Network Longevity	Main Hall	Vaasu Taneja, Manthir Chater, Tony Comanzo, Petko Bogdanov, Mariya Zheleva
	10:20	10:40	The GAIUS Experience: Powering a Hyperlocal Mobile Web for Communities in Emerging Regions	Main Hall	Rohail Asim, Arjuna Sathiaselalan, Arko Chatterjee, Mukund Lal, Yasir Zaki, Lakshmi Subramanian
	10:40	11:10	Tea Break		

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			Papers Session 4: Community Empowerment		
	11:10	11:30	Leaving No One Behind: An Agenda for Voice-based Engagement of Remote Communities	Main Hall	Md Adnanul Islam, Patrick Olivier, Delvin Varghese
	11:30	11:50	"I wish I had the ability to vote to select my own leaders... Rohingya Refugees Quest for Democracy in the Digital Age	Main Hall	Faheem Hussain
	11:50	12:10	From Exclusion to Inclusion: Digital Platforms as a Pathway for Hijra (Third Gender) Employment	Main Hall	Umme Fatima Lamia, Md. Alvi Islam Ratul, Anika Priodorshinee Mirittika, Jannatun Noor
	12:10	13:00	Papers and Notes: Parallel Session	Foyer	
	13:00	14:00	Lunch		
			Open Sessions 3		
	14:00	15:30	A Framework for mainstreaming Artificial Intelligence as an Accelerator for Achieving SDG 4: Quality Education for All	Main Hall	Agnes Mindila, Petronilla Murithi, Joseph Wafula
	14:00	15:30	Achieving Gender Justice in STEM	Room 1	Chisenga Muyoya, Caroline Wamala-Larsson, Fiona Ssozi, Nancy Karuri
	14:00	15:30	Digital Colonisation	Room 2	Nyamwaya Munthali
	15:30	16:00	Break		
	16:00	17:00	ICTD Town Hall	Main Hall	Kentaro Toyama, Dorothea Kleine
	17:00	18:00	Papers and Notes: Parallel Session	Foyer	

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11-Dec-2024	8:30	9:00	Registration		Joan
			Open Sessions 4		
	9:00	10:30	Human Computer Interaction (HCI) Across Borders and Aspirations	Main Hall	David Nkundinez a, Hafeni Mthoko, Kentaro Toyama, Susan Wyche, Tim Brown and Vikram Kamath Cannanure
	9:00	10:30	Technology in the Humanitarian Space: Fostering Improved Accountability for Digital Products	Room 1	Omar Abou-Samra, Dr. Jessica Ports Robbins and Priyanka Patel
	10:30	11:00	Tea Break		
			Open Sessions 5		
	11:00	12:30	Human Computer Interaction (HCI) Across Borders and Aspirations	Main Hall	David Nkundinez a, Hafeni Mthoko, Kentaro Toyama, Susan Wyche, Tim Brown and Vikram Kamath Cannanure
	11:00	12:30	Open Session Free Slot (topic arising from ICTD Town Hall)	Room 1	
	12:30	13:30	Lunch		

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			Papers Session 5: Media and Participation	Main Hall	
	13:30	13:50	Filter-in or Filter-out: Complexities and Implications of Content Moderation Processes in a Voice-based Participatory Media Platform in India		Saurabh Jain, Paramita Panjal, Sultan Ahmad, Rafi Ahmad Siddiqi, Aaditeshwar Seth
	13:50	14:10	Investigating the Crowdfunding Communication Gap Between the Campaign Creators and Backers: a Case from Namibia		Anna Karolina Mueller, Shilumbe Chivuno-Kuria, Pietari Keskinen, Marko Nieminen
	14:10	14:30	A Civics-oriented Approach to Understanding Intersectionally Marginalized Users' Experience with Hate Speech Online		Achhiya Sultana, Dipto Das, Saadia Binte Alam, Mohammad Shidujaman, Syed Ishtiaque Ahmed
			Papers Session 6: AI/ML in Developing Contexts	Main Hall	
	14:30	14:50	AI in Education Unplugged Support Equity Between Rural and Urban Areas in Brazil		Carlos Portela, Paula Palomino, Geiser Chalco, Alvaro Sobrinho, Thiago Cordeiro, Rafael Mello, Diego Dermeval, Ig Bittencourt, Seiji Isotani
	14:50	15:10	Near Feasibility, Distant Practicality: Empirical Analysis of Deploying and Using LLMs on Resource-Constrained Smartphones		Mateus Monteiro Santos, Aristoteles Barros, Luiz Rodrigues, Diego Dermeval, Tiago Primo, Ig Bittencourt, Seiji Isotani
	15:10	15:30	Tinea Skin Disease Network (TiSKiD-Net): Detecting Tinea Skin Diseases through Lightweight and Unbiased Deep CNN		Rantu Das, Sohikul Haque, Jannatun Noor
	15:30	15:45	Concluding Remarks		

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Open Sessions Programme

Monday, December 9, 2024

Session One

Title: Open Science Implementation Framework for Africa

Organisers: Agnes Kiragga and Joseph Wafula.

Abstract: Open Science Implementation Framework for Africa session has the following three goals: 1) To contribute to development of an open science framework for Africa. 2) Share best practices in open science. 3) Demonstrate examples of open science implementation cases. The session will be organized in three equal parts each taking 30 minutes, namely: invited speakers, Panel and Q & A. The session will have a chair. During presentations and Panel discussion, both physical and virtual participants will submit questions that will be answered.

Title: Co-design and gender in ICT4D/ICTD Research (Panel and Toolkit Workshop)

Organisers: Melissa Densmore, Dorothea Kleine, Fiona Ssozi, Sierra Van Riel, Livingston Ndigezza, and Henrietta Nanyonjo

Abstract: This is a double session (panel and workshop), focused on practices of gender analysis and gender-just co-design in ICTD/ICT4D. Women and other frequently marginalised groups are often treated as hard-to-reach groups or late adopters, rather than focusing on their agency in co-design. The panel will discuss approaches to gender analysis in ICT4D/ICTD research, examine if and how women and other marginalised groups are included in co-design, offer good co-design practice examples and suggest potential opportunities for allyship. In the workshop we will present a draft toolkit for gender-just co-design and seek feedback on its content and usefulness for the ICT4D/ICTD researcher community.

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Title: AI and Society: Questions and Possibilities for the "Others"

Organisers: Faheem Hussain, Hasib Ahsan

Abstract: This Open Session explores the rapid rise of AI and its societal impact, focusing on how AI can exacerbate inequalities if not properly implemented. The session highlights challenges in ensuring inclusion and equity in ICT innovations and policymaking, especially in emerging economies adopting frameworks from industrialized nations without adapting them to local contexts. The plan is to have 3-4 participants who will engage in interactive discussion with the audience. One of the participants, Dr. Faheem Hussain, will serve as the moderator. The session fosters dialogue on creating a more inclusive digital future by examining AI's role in areas like climate change, displacement, and public policy.

Session Two

Title: Re-imagining Information Communication Technology and Development (ICTD)

Education: Developing and Implementing an African-Informed Approach to Global Technology Design

Organisers: Susan Wyche, Chao Mbogho, George Adoyo, Godfrey Mwit, Jim Karemu, and Melvin Ochami

Abstract: ICTD courses typically train students to design technologies aimed at solving problems in developing countries. However, this approach can reinforce stereotypes that Africans lack innovation and primarily use technology without contributing to its development. These courses also often fail to incorporate the lived experiences and expertise of Africans into the curriculum.

In this open session, we describe a collaborative effort between Michigan State University (MSU) and Kenya's Egerton University to reimagine ICTD education. With support from the Mozilla Foundation's Responsible Computing program, we designed an ICTD course that centers Africans' expertise and perspectives. Notably, we developed a novel 'Technologists-in-Residence' program to support Kenyan students' participation in the course. These

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students served as mentors, evaluated MSU students' projects, and traveled to MSU to participate in a campus-wide project showcase. In this session, we will share our course outcomes, students' experiences, and discuss how other institutions can adopt our approach.

Title: Co-design and gender in ICT4D/ICTD Research (Panel and Toolkit Workshop)

Organisers: Melissa Densmore, Dorothea Kleine, Fiona Ssozi, Sierra Van Riel, Livingston Ndigezza, and Henrietta Nanyonjo

Abstract: This is a double session (panel and workshop), focused on practices of gender analysis and gender-just co-design in ICTD/ICT4D. Women and other frequently marginalised groups are often treated as hard-to-reach groups or late adopters, rather than focusing on their agency in co-design. The panel will discuss approaches to gender analysis in ICT4D/ICTD research, examine if and how women and other marginalised groups are included in co-design, offer good co-design practice examples and suggest potential opportunities for allyship. In the workshop we will present a draft toolkit for gender-just co-design and seek feedback on its content and usefulness for the ICT4D/ICTD researcher community.

Title: Social Media and Cultural Dominance: Perspectives and Challenges in the Digital Age

Organisers: Benjamin Akinmoyeje

Abstract: This session will discuss the impact of social media use among the young sub-Saharan population. It is often assumed that access to smartphones or social media is a precursor for development in underdeveloped regions through the democratization of knowledge. The session will set the stage for a comprehensive discussion on social media's role in entrenching cultural hegemony. It will be an inclusive, stimulating environment for the exchange of ideas. Discussion - Cultural Influence in the Global South: Are social media's effects on identity and representation harmful? Role of Social Media Algorithms & Design. Outcomes: Understanding social media's role in cultural hegemony and suggestions for design fixes on social media platforms.

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Tuesday, December 10, 2024

Session Three

Title: A Framework for mainstreaming Artificial Intelligence as an Accelerator for Achieving SDG 4: Quality Education for All.

Organisers: Agnes Mindila, Petronilla Muriithi and Joseph Wafula

Abstract: Mainstreaming Artificial Intelligence (AI) in education requires a comprehensive framework that integrates technological, policy, ethical, and pedagogical aspects to ensure that AI contributes effectively to educational goals, including equitable access, quality learning, and improved educational outcomes. A comprehensive framework based on these pillars can help ensure that AI transforms education in an equitable, inclusive, and effective way, contributing to the achievement of SDG 4: Quality Education for All. This session explores how Artificial Intelligence (AI) can accelerate the achievement of Sustainable Development Goal 4 (SDG 4): ensuring inclusive and equitable quality education and promoting lifelong learning opportunities for all.

Title: Interactive Workshop: Achieving Gender Justice in STEM in Higher Education

Organisers: Caroline Wamala-Larsson, Fiona Ssozi, Nancy Karuri and Chisenga Muyoya

Abstract: An interactive session, “Achieving Gender Justice in STEM in Higher Education”, will consist of three segments. i) We will present findings from the GeJuSTA project, which examines the barriers and enablers for African women in STEM research across South Africa, Uganda, Kenya, and Zambia. ii) We will reflect on theoretical and methodological tensions; particularly how African feminist perspectives can challenge and enrich STEM discourses. iii) We will facilitate an interactive small group activity where participants provide feedback, input and recommendations. The session will contribute to our goal of advancing gender justice in STEM by reshaping policy and pedagogy through a gender-diversity lens.

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Title: Dismantling digital colonisation. Academics, practitioners and policy makers confronting what keeps us up at night.

Organisers: Nyamwaya Munthali

Abstract: Digital colonisation is a topical issue in development studies, considering digital technologies' capacity to support cultural and economic hegemony as well as data exploitation. The session will identify and highlight academics, practitioners and policy-makers' concerns regarding digital colonisation and ultimately engage them in joint problem-solving. More specifically, through the session, three Global North and South academics, practitioners and policy-makers will make brief presentations on key issues around the topic. Then they will engage in a short Q&A and finally pose three questions (to participants) directed at academics, practitioners and policy-makers respectively related to dismantling digital colonisation. Participants will then have the opportunity to provide solutions/mitigation measures in response to the questions, to each of the speakers, in online break away session. After this the presenters will reflect on the solutions/mitigation measures and provide short closing remarks on the way forward.

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Wednesday, December 11, 2024

Session Four

Title: HCI Across Borders and Aspirations

Organisers: David Nkundineza, Hafeni Mthoko, Kentaro Toyama, Susan Wyche, Tim Brown and Vikram Kamath Cannanure

RSVP: <https://forms.gle/jatAFgb4qBUBx5Af6>

Abstract: Human-Computer-Interaction Across Borders (HCIxB) is a global research community that supports early-career researchers through workshops. At this year's ICTD, the community will focus on aspirations theory in ICTD, which moves beyond immediate user needs to designing technology that supports long-term aspirations, especially for marginalized communities. The hybrid workshop will include two 90-minute sessions: the first introduces aspirations theory and its practical applications, and the second will reflect on the theory and discuss the future aspirations of HCIxB.

Title: Technology in the Humanitarian Space: An Approach for Fostering Improved Accountability for Digital Products

Organisers: Omar Abou-Samra, Jessica Ports Robbins and Priyanka Patel

Abstract: In this session, a panel of speakers will discuss and invite others to share stories of successes and failures of technology in the Humanitarian Space. We will include workshop-style group discussions to encourage participants to apply these concepts to their own work and come away with actionable steps they can take to improve accountability in their technology work.

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Session Five

Title: HCI Across Borders and Aspirations

RSVP: <https://forms.gle/jatAFgb4qBUBx5Af6>

Organisers: David Nkundineza, Hafeni Mthoko, Kentaro Toyama, Susan Wyche, Tim Brown and Vikram Kamath Cannanure

Abstract: HCI Across Borders (HCIxB) is a global research community that supports early-career researchers through workshops. At this year's ICTD, the community will focus on aspirations theory in ICTD, which moves beyond immediate user needs to designing technology that supports long-term aspirations, especially for marginalized communities. The hybrid workshop will include two 90-minute sessions: the first introduces aspirations theory and its practical applications, and the second will reflect on the theory and discuss the future aspirations of HCIxB.

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HON DR. MARGARET NYAMBURA

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SPEAKERS

Wafula Muliaro

Paper: Open Science Landscape in Africa



Prof. Joseph Muliaro Wafula is an Associate Professor of Computing at JKUAT and founding Director of the ICT Centre of Excellence and Open Data (iCEOD). He holds a PhD in Information Technology (JKUAT), MSc in Physics (University of Nairobi), M.Phil. in Microelectronic Engineering and Semiconductor Physics (Cambridge) Certified by IBM in Mobile Application Development, Cyber Security, and Data Engineering, he leads pioneering initiatives in open science and data-sharing platforms. Currently, Prof. Wafula heads projects like the Data Sharing Platform for Researchers in Africa (DASSA) funded by APHRC and the Africa Open Science Platform (AOSP) Eastern Africa Node Initiative, in partnership with AICAD. He has also developed Kenya's Ministry of Health Data Repository and contributed to the African Policy Framework for Open Science. His work includes blockchain applications for vaccine supply chains and capacity-building programs across Africa. He was awarded the Kenya Open Data Champion Award (2016) and IBM Shared University Research Award (2016). He is a fellow of the Computer Society of Kenya and Cambridge Commonwealth Society. He has served as an Executive Member of CODATA International, published widely, and continues to shape policy and research in digital development and open data.

Kentaro Toyama



Kentaro Toyama is W.K. Kellogg Professor of Community Information at the University of Michigan School of Information and a fellow of the Dalai Lama Center for Ethics and Transformative Values at MIT. He is the author of *Geek Heresy: Rescuing Social Change from the Cult of Technology*. Until 2009, Toyama was assistant managing director of Microsoft Research India, which he co-founded in 2005. At MSR India, he started the Technology for Emerging Markets research group, which conducts interdisciplinary research to understand how the world's poorest communities interact with electronic technology and to invent new ways for technology to support their socio-economic development. His work has been mentioned by the New York Times, BBC, Wall Street Journal, Washington Post, and NPR. Prior to his time in India, Toyama did research in artificial intelligence and human-computer interaction, and taught mathematics at Ashesi University in Ghana. He is a co-founder of the International Conference on Information & Communication Technologies and Development and served as the co-editor-in-chief of the journal *Information Technologies & International Development*.

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Dorothea Kleine

Prof. Dorothea Kleine is the Director of the Institute for Global Sustainable Development at the University of Sheffield, leading the Digital Technologies, Data, and Innovation group. Her work focuses on sustainable development, global justice, and the role of digital technologies in advancing these aims. She is renowned for the Choice Framework, which applies the capabilities approach to ICTD/ICT4D, as outlined in her book *Technologies of Choice?* (MIT Press). Prof. Kleine's research spans Africa, Latin America, Europe, and the Middle East, using participatory methods such as action research and co-design. Her projects, funded by UKRI, ESRC, DFID/FCDO, IDRC, and others, include the GCRF UKRI Gender-Justice in Digital Innovation in Africa and the IDRC-funded Gender-Justice in STEM Research in Africa. She has collaborated with organizations like UNCTAD, ILO, UNICEF, UNEP, and GIZ. Her latest book, *Digital Reset: Redirecting Technologies for the Deep Sustainability Transformation* (2023), is freely available online. Previously, she directed the ICT4D Centre at Royal Holloway, University of London, and has held roles at the University of Cambridge, Bonn University, and Harvard University. Educated at LMU Munich, TUM, and Oxford, she earned her PhD at the LSE. In the ICTD community, she co-introduced Open Sessions at ICTD2010, served on program and steering committees, and co-led the adoption of ethical standards for ICT4D research at ICTD2019.



Abasifiok Okokon

Paper: Data Protection in the Digital Age: A Comparative Analysis of Nigeria's NDPA and the EU's GDPR

Abasifiok Okokon is a political science student at the University of Uyo, Akwa Ibom State, Nigeria, with a keen focus on addressing governance challenges locally and globally. Her academic interests include public policy and administration, comparative politics, and international relations, particularly the societal impacts of policies and governance. Her current research examines the Nigeria Data Protection Act (NDPA), aiming to strengthen the Act by conducting a comparative analysis of global data protection frameworks. This work identifies gaps and proposes improvements to better safeguard citizens' data while fostering digital growth. Beyond academics, Abasifiok enjoys cooking, exploring cultural diversity through cuisine, reading novels to gain broader perspectives, and watching movies to relax and gain insights into global issues. These hobbies reflect her balance of intellectual and creative pursuits.

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Ashima Mittal

Paper: An In-depth Analysis of Caste-based Inequity in Welfare Allocation of the National Rural Employment Guarantee Scheme in India

Ashima Mittal is a PhD scholar at IIT Delhi with a solid foundation in Computer Science, Engineering, and Information Technology. She graduated with Honors in Computer Science & Engineering in 1995, earning a University Gold Medal for academic excellence. She later completed a Master's in Information Technology in the United States, enhancing her global perspective in the field. With over 20 years of experience in the IT industry, including in the financial sector, Ashima is also an Oracle Certified Professional (DBA). Her career has been driven by a passion for applying technology to address real-world challenges, which led her to explore the intersection of technology and economics. Ashima's PhD research reflects her commitment to cross-disciplinary solutions. She focuses on monitoring and improving the performance of social welfare schemes, particularly MGNREGS, through data analytics. By integrating Computer Science and Economics, her work tackles critical societal issues, demonstrating the practical impact of her expertise. Pursuing a PhD in Information and Communication Technology for Development (ICTD) enables Ashima to align her technical knowledge with her dedication to social impact. Through her research, she aims to advance her vision of leveraging technology to improve lives and contribute meaningfully to societal development.



Susan Wyche

Paper: Beyond Digital Interventions: Human-Centered Design for Adolescents' Type 1 Diabetes Management in LMICs

Dr. Susan Wyche is an Associate Professor in the Department of Media and Information at Michigan State University (MSU) and has a courtesy appointment in MSU's African Studies Center. Her research primarily contributes to the Human-Computer Interaction (HCI) and Information and Communication Technology for Development (ICTD) fields. She focuses on developing an understanding of technology use in Sub-Saharan Africa that is grounded in people's experiences. To achieve this goal, she conducts fieldwork in—primarily rural Kenyan sites—that she has been visiting since 2008. Dr. Wyche has explored various technology-related topics, including mobile phones, social media, and agricultural hand tools. This research is funded by awards from Google, Facebook, Mozilla, the United States Agency for International Development (USAID), and the National Institutes of Health (NIH). She earned her PhD in Human-Centered Computing from Georgia Tech, an MS from Cornell University, and an undergraduate degree in Industrial Design from Carnegie Mellon University. Before pursuing her PhD, Susan worked as a professional designer in the housewares industry.

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Rohail Asim



Paper: The GAIUS Experience: Powering a Hyperlocal Mobile Web for Communities in Emerging Regions

Rohail Asim is a PhD candidate at New York University. His research focuses on the domains of Computer Networks and Web Accessibility in developing regions. His research includes the development of new systems to reduce the bandwidth, cost, and computational requirements of the web in developing regions; the development of systems that increase internet penetration, availability, and usage in developing regions with locally relevant content; as well as the analysis and advancement of Congestion Control protocols for emerging applications.

Adnan Islam



Paper: Leaving No One Behind: An Agenda for Voice-based Engagement of Remote Communities

Adnan is a PhD candidate in the Action Lab at the Faculty of Information Technology, Monash University, Australia. His research advocates for distributed community engagement, addressing the digital divide as a barrier to diverse voices and perspectives. Exploring strategies beyond internet connectivity, his work focuses on telephony-based platforms that prioritize critical design considerations and robust record-keeping practices for voice-driven community engagement. Adnan aims to foster inclusivity and accessibility in global community discourse and decision-making processes. His primary research interests include Human-Computer Interaction, Natural Language Processing, and Social Computing, areas where he has published over 25 scholarly papers. Before starting his PhD, Adnan served as an Assistant Professor in the Department of Computer Science and Engineering at the Military Institute of Science and Technology, Bangladesh. He holds a Bachelor's and a Master's degree in Computer Science and Engineering from Bangladesh University of Engineering and Technology. Alongside his doctoral studies, Adnan contributes as a Teaching Fellow at Monash University. His work reflects a commitment to bridging technological gaps and empowering communities through innovative and inclusive approaches to engagement.

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Temitope O. Tokosi

Paper: Barriers to transformation in the South African banking sector

Dr. Temitope O. Tokosi is a lecturer at the Cape Peninsula University of Technology (CPUT) in Cape Town, South Africa, specializing in Management Information Systems (MIS) and Research Methodology at the postgraduate level, as well as Business Information Systems (BIS) at the undergraduate level. He holds a PhD in Information Systems from the University of the Western Cape (UWC), a Master's in International Business from HAN University of Applied Sciences in the Netherlands, a Bachelor's degree with Honours from UWC, and a Certificate in Service Project Management from Vrije University in the Netherlands. His research focuses on information systems and management, with interdisciplinary contributions to IT education and health informatics. A member of the South African Health Informatics Association (SAHIA) and the South African Institute of Computer Science and Information Technologists (SAICSIT), he has published research articles, contributed book chapters, and presented at both local and international conferences. His academic contributions include supervising Master's students, with doctoral supervision currently underway. He has also served as an independent contractor for universities, an external examiner, a journal peer reviewer, and a consultant. He actively engages in funding proposal development and has successfully completed a government-funded research project in South Africa. His work reflects a dedication to advancing knowledge and fostering innovation in the fields of information systems and education.



Anna Muller

Paper: Investigating the Crowdfunding Communication Gap Between the Campaign Creators and Backers: A Case from Namibia

Anna Müller is a user-centric designer and Master of Science from Helsinki, Finland. Anna will be presenting her research on a charitable crowdfunding platform developed by a research group in Namibia University of Science and Technology, where she did her exchange studies in 2022.^[1] Crowdfunding has been thought to be a potential tool for small-scale entrepreneurs in the Global South to find funding for their businesses. However, a gap in communication remains between the potential campaign backers and the entrepreneurs creating crowdfunding campaigns. Anna worked with Namibian crowdfunding campaign creators, and their potential backers to investigate this gap. She will present her findings on the gap and offer recommendations for crowdfunding platforms to design user interfaces and experiences that effectively support campaign creators.

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Lillian Mathu



Paper: Beyond Digital Interventions: Human-Centered Design for Adolescents' Type 1 Diabetes Management in LMICs

Lilian Mathu is a trained software engineer with a strong focus on human-centered design. She holds a degree in Information Technology from Maseno University, along with certifications in Cyber Security from Strathmore University, Software Development from Lakehub Academy, and Health Information Systems from Health Informatics for Kenya (HI4Kenya). For the past five years, Lilian has applied human-centered design principles to develop innovative solutions in the healthcare industry. Her contributions include designing a paper-based diary to support teens in managing Type 1 Diabetes, creating a 2G-based solution (SMS and USSD) to improve Reproductive, Maternal, Newborn, Child, and Adolescent Health (RMNCAH) outcomes in underserved counties in Kenya, and developing a web-based cancer screening tool to enhance early detection and improve the prognosis of breast and cervical cancer. Through her work, Lilian demonstrates a commitment to leveraging technology and design to address critical healthcare challenges and improve community well-being.

Mizanur Rahman



Paper: The Ancient Elephant in the Room: Stigma, Gender Norms, and Cultural Barriers in Reproductive Care in Bangladesh

A.T.M. Mizanur Rahman is a first-year PhD student in Computer Science at the University of Illinois Urbana-Champaign. His research focuses on Human-Computer Interaction (HCI) and Information and Communication Technologies for Development (ICTD). Currently, he is investigating the role of ghost workers from the Global South in shaping and sustaining artificial intelligence systems. He completed his bachelor's degree at the Bangladesh University of Engineering and Technology (BUET), where he developed a strong interest in doing research for the betterment of marginalized communities.

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Shivani Ashok Mehta

Paper: Initial Observations from Field Testing of a Digital Participatory Tool to Improve Water Security in Rural India

Shivani is a PhD student under Professor Aaditeshwar Seth at the Indian Institute of Technology Delhi, India. Her research focuses on unraveling the intricate relationships between water, climate, and land to support sustainable agriculture for rural communities in India. In her work, Shivani transforms complex data into actionable insights, empowering rural communities to address environmental challenges. She thrives in both academic and outdoor environments, seamlessly balancing rigorous lab analysis with immersive fieldwork. This approach turns her research into a dynamic journey of discovery, fostering innovation and practical solutions. Beyond her academic pursuits, Shivani channels her adventurous spirit into trekking, finding inspiration and rejuvenation in nature's expansive landscapes.



Suleman Shahid

Paper: ChatGPT in The Classroom: Guidelines for Integrating AI-Assisted Learning into Pakistani Children's Academic Journey

Suleman Shahid is an Associate Professor of Computer Science at the Lahore University of Management Sciences (LUMS) and the founding director of the LUMSx - Online Learning Center at LUMS. At LUMS, he directs the 'Computer-Human Interaction for Inclusion, Wellbeing and Learning' (CHISEL) Lab, and manages the university's Usability Lab. Suleman's primary area of interest is designing learning and healthcare technologies for/with the margins in the global south with an emphasis on using participatory and inclusive design to drive innovation. His research focuses on the intersection of design, technology, and inclusion with applications to (1) assistive technologies (mobile apps and VR/AR systems) to enhance the quality of life of persons with disabilities (e.g. autism, dyslexia, visual impairment, dementia), and persons with mental health conditions (e.g. anxiety, depression), and (2) learning and playful technologies for children. He works with private and public sectors on design-driven innovation, people-centered change management, and digital transformation projects.

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Paul Spiesberger

Paper: A Decade Later - Revisiting the Untapped Potential of Mobile Learning with Smartphones in Ghana's Higher Secondary Education

Paul Spiesberger graduated from the Vienna University of Technology with a degree in computer science. He is currently working with INSO as the Operative Head of ROTA and lecturer in the field of mobile technologies and ICT4D. Since 2024, he has been working at the Institute of Software Technology located at TU Graz. Paul is also employed as a senior lead software engineer for mobile technologies at RISE. In the past, he won several national and international awards for his work at Os – a collective to tackle social issues with ICTs. Since 2014 Paul has been the chair of ICT4D.at, and in 2021, he joined the ICT4D Collective.



Hafsa Mahzabin Chowdhury

Paper: The Ancient Elephant in the Room: Stigma, Gender Norms, and Cultural Barriers in Reproductive Care in Bangladesh

Hafsa Mahzabin Chowdhury is a first-year PhD student in Computer Science at the University of Illinois Urbana-Champaign. Her research centers on Human-Computer Interaction (HCI) and Information and Communication Technologies for Development (ICTD). Her recent work examines reproductive healthcare access in rural Bangladesh, exploring the influence of sociocultural norms and gender dynamics on healthcare decision-making. Hafsa holds a bachelor's degree in Computer Science from the Military Institute of Science and Technology (MIST). She looks forward to presenting her research at ICTD 2024 and collaborating with researchers and practitioners to advance technology-driven solutions for global development.

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Saurabh Jain

Paper: Filter-in or Filter-out: Complexities and Implications of Content Moderation Processes in a Voice-based Participatory Media Platform in India

Saurabh Jain is a PhD scholar at IIT Delhi under Professor Aaditeshwar Seth, specializing in Human-Computer Interaction (HCI) with a focus on ethical technology use. His research addresses social biases in information systems, recently collaborating with Gram Vaani Community Media on content moderation in voice-based participatory platforms. With postgraduate degrees in Computer Science, Political Science, and Psychology, Saurabh previously co-authored research on computer networks at the University of Minnesota, Twin Cities. Professionally, he has worked with organizations like Citrix, Local Circles, IBM, and served as a Lecturer at BITS Pilani, Dubai. Currently, he is Deputy Director of Income Tax (Systems) at India's Ministry of Finance. Driven by interdisciplinary expertise, Saurabh advocates for ethical, inclusive online spaces. Outside academia, he enjoys running, meditating, blogging, and spending time with his child.



Md. Alvi Islam Ratul

Paper: From Exclusion to Inclusion: Digital Platforms as a Pathway for Hijra (Third Gender) Employment

Md. Alvi Islam Ratul is an undergraduate Computer Science student at BRAC University in Bangladesh. Growing up in the Global South, he has witnessed the unique challenges and opportunities that technology presents in resource-constrained environments. This lived experience drives his passion for Human-Computer Interaction (HCI) and Information and Communication Technologies for Development (ICT4D). Alvi focuses on designing accessible and intuitive digital experiences to bridge the digital divide and promote inclusion for marginalized populations. Beyond academics, he has facilitated Project Sriyon, an initiative promoting gender equality, skill development, and social awareness among students from underprivileged communities. Combining his technical expertise and commitment to social impact, Alvi aspires to foster technological innovations that empower marginalized communities while addressing their unique needs. He envisions his contributions benefiting not only the Global South but also advancing inclusive development globally.

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Hasib Ahsan

Session: AI and Society: Questions and Possibilities for the "Others"

Hasib Ahsan is a postdoctoral researcher at the IT University of Copenhagen, specializing in the intersection of IT with climate change, agriculture, healthcare, and refugee crises. With a PhD in Digital Intervention in the Global South, he has co- designed and implemented digital solutions addressing challenges in health, agriculture, and refugee contexts. His current and recent action research includes work with climate-displaced communities in Bangladesh, Rohingya refugees in Bangladesh, Syrian refugees in Jordan, and farming communities in Cambodia. Before entering academia, Hasib spent eight years as the Director of Digital Agriculture at mPower (Bangladesh), designed and implemented large-scale, externally funded projects in partnership with governments, NGOs, and aid agencies, reaching over 200,000 people in Bangladesh and Nepal.



Faheem Hussain

Session: AI and Society: Questions and Possibilities for the "Others"

Hasib Ahsan is a postdoctoral researcher at the IT University of Copenhagen, specializing in the intersection of IT with climate change, agriculture, healthcare, and refugee crises. With a PhD in Digital Intervention in the Global South, he has co- designed and implemented digital solutions addressing challenges in health, agriculture, and refugee contexts. His current and recent action research includes work with climate-displaced communities in Bangladesh, Rohingya refugees in Bangladesh, Syrian refugees in Jordan, and farming communities in Cambodia. Before entering academia, Hasib spent eight years as the Director of Digital Agriculture at mPower (Bangladesh), designed and implemented large-scale, externally funded projects in partnership with governments, NGOs, and aid agencies, reaching over 200,000 people in Bangladesh and Nepal.

For other papers and speakers, please see the conference proceedings.

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