



HCI Across Borders: Navigating Shifting Borders at CHI

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Figure 1: HCI Across Borders held at CHI over the years: (left) at Glasgow in 2019 (right) virtually in 2021

ABSTRACT

Human-Computer Interaction (HCI) research has led to major innovations used by large and diverse audiences in different parts

of the world. However, a recent meta-analysis [25] found that research at CHI is still highly (73%) concentrated in western contexts. HCI Across Borders (HCIxB) has gathered a diverse audience by conducting workshops and symposia since CHI 2016, aiming to expand borders within CHI. For CHI 2022, we expect to regroup for a virtual workshop to reflect on shifting boundaries from CHI's past and emerging challenges in HCI research, education, and practice in recent years.

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CCS CONCEPTS

• **Human-centered computing** → **Human computer interaction (HCI)**.

KEYWORDS

HCI Across Borders; Geographic Diversity; Cultural Diversity; HCI and Global Development

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1 INTRODUCTION

Today, the internet has connected 60% of the world through digital media [5], highlighting the importance of designing for online interactions across borders. Researchers in the CHI community have increasingly prompted discussion on Human-Computer Interaction (HCI) and race [27], religion [26] and cross-cultural research [16, 28]. However, a recent meta-analysis [24, 25] found that much CHI research in the past four years (73%) is still situated in western contexts, and with little diversity even within research on western contexts. This further questions the impact and generalizability of HCI research for different populations [15]. To address this, researchers have broadened participation at CHI through diversifying research domains and populations, for example, expanding HCI research in the Global South [8] or foregrounding non-dominant perspectives in western contexts [9, 10, 12, 29]). There have also been avenues for growth through SIGCHI prioritization of global and local HCI [4] and regional initiatives (such as ArabHCI [13], Latin American HCI [14], HCI4SA [17] and AfriCHI [6]). Furthermore, the COVID-19 pandemic has necessitated the development of inclusive virtual events (e.g., CHIPLAY [2]) and broader support from community-driven initiatives [22]. However, these same events have shed light on how HCI research and education are still affected by our narrow focus on western contexts, which in turn influence the trajectories of HCI education [3, 31], research [30], and design spaces [7]. Therefore, we intend to reflect on these challenges from our past and present as a community to create opportunities to expand the borders in HCI.

HCI Across Borders (HCIXB) is a global community of over 600 members that has convened regularly at CHI over the past six years. We started as a development consortium, predominantly embracing Global South researchers, at CHI 2016 [19] and have since reconvened every year to strengthen our community. Over time, this community [18, 19, 21, 23] has expanded our concept of borders beyond national or geographical boundaries to research domains, methodologies, historical roots, and, in response to the effects of the ongoing pandemic, technology access issues. In 2017 [20], support from SIGCHI and Facebook led to the most extensive participation, with over 90 attendees at the event. In 2018, we supported

mentorship of early career researchers [21], highlighted intersectionally diverse contexts in 2019 [23], and discussed sustainability in 2020 [18]. At CHI 2021 [7], we reflected on decolonial thinking to circumvent our historical limitations in research and practice.

For 2022, motivated by CHI's theme of *Cultivating Communities* [1], HCIXB will regroup virtually to reflect on the shifting nature of "borders". This year, our community members encouraged this initiative when they expressed interest in a workshop and a panel on our Facebook group. We intend to foster such community-led interactions by organizing a virtual event at CHI 2022. We expect our workshop to start conversations among various subgroups (such as practitioners, early career researchers, regional HCI communities) to promote virtual events throughout the year and how we can get the most out of them.

2 ORGANIZERS

We recruited our initial list of organizers from our Facebook group, Discord Server¹, and Slack channel. We list the initial team of volunteers below, in alphabetical order of first name:

Annu Sible Prabhakar is a Professor of Information Technology at the University of Cincinnati. Her research is at the intersection of HCI, Health Informatics, Design Thinking, Diversity and Inclusion, and ICT4D. She serves as the Co-Chair of Global Inclusion and Equity for CHI 2022.

Anupriya Tuli is a PhD candidate in Human-Centred Design at IIT-Delhi, India. Her work lies at the intersection of human-centred computing and healthcare for development. She engages with feminist perspectives for designing technologies for women's advocacy and works extensively with practitioners and NGOs working on menstrual health.

Christian Sturm is a Professor at the Hamm-Lippstadt University of Applied Sciences in Germany. His academic background includes computer science, cognitive psychology, and cultural anthropology. He has worked in academia and industry for several years in Mexico, Spain, and Egypt and taught computer science in China. His research interests include experience research and design, cross-cultural interactions, and entrepreneurship.

Cuauhtémoc Rivera-Loaiza is an Associate Professor at Universidad Michoacana de San Nicolás de Hidalgo in Morelia, México. His research interests are in technology adoption, mobile computing, and education. He has been a founding member of HCI organizations in Mexico (CHIMéxico and AMEXIHC) and part of the organizing committees for the 2005 and 2022 CHI Conferences.

David Nemer is an Assistant Professor of Media Studies at the University of Virginia. His research and teaching interests cover the intersection of Science and Technology Studies (STS), Anthropology of Technology, ICT for Development (ICT4D), and Human-Computer Interaction (HCI).

Dilrukshi Gamage is a postdoctoral researcher at the Sasahara lab at Tokyo Institute of Technology, Japan. Her interest is in HCI, learning at scale, and MOOCs for developing countries. She has been participating in Summer/Winter SIGCHI schools held in India, Bangladesh, and Japan and supporting many CHI workshops that build community in the Global South.

¹<https://discord.com/invite/YJF4nNGH3f>

Dipto Das is a PhD student in the Department of Information Science at the University of Colorado Boulder. His research interest lies at the intersection of human-computer interaction and social computing. Drawing on critical perspectives, he studies and designs around the colonially marginalized communities in the Global South.

Faria Noor is a Master's student at Bentley University, attending the McCallum Graduate School of Business.

Naveena Karusala is a PhD student in the Information and Communication Technologies and Development lab at the University of Washington. Her work is at the intersection of HCI and global development and looks at why and how emerging technologies are being used to shape healthcare work in the Global South.

Neha Kumar is an Associate Professor at Georgia Tech, conducting research at the intersection of human-centered computing and global development. She has been co-organizing HCIXB since 2016. She currently serves as SIGCHI president.

Rama Adithya Varanasi is a PhD candidate at Cornell University. He works with Dr. Nicola Dell and Dr. Aditya Vashistha in the intersection of Human-Computer Interaction, Computer Science, and Development Sociology.

Susan Dray is President of Dray & Associates, Inc., where she provides contextual and ethnographic user research, usability evaluation, and interface design consultation for a wide range of products systems, and applications. She contributed to the founding of ACM SIGCHI, was the 2006 recipient of the SIGCHI Lifetime Service Award, and a recipient of the SIGCHI Lifetime Achievement in Practice Award in 2015. She is an ACM Distinguished Engineer and a Fellow of the Human Factors and Ergonomics Society. She is also an ACM Fellow.

Vikram Kamath Cannanure is a PhD candidate in Human Computer Interaction at Carnegie Mellon University. His research is on building and evaluating appropriate systems for low-resource contexts. He is currently working on improving teacher training in Côte d'Ivoire and providing health information in Rwanda.

3 WEBSITE

Our website² will include all information about the workshop and past initiatives. The website will consist of a call for participation, a list and roles of organizers, and background on prior HCIXB initiatives. We will also invite contributions to our Medium blog titled *Human-Centered Computing Across Borders*³; this allows authors to engage in asynchronous discussions relevant to the theme.

4 PRE-WORKSHOP PLANS

We share the goal of cultivating communities with CHI2022, and thus we will be actively engaging with the growing HCIXB community to shape and guide our workshop through digital media. We will recruit volunteers through the Facebook group, Discord server, and Slack channel in the next few months. Our Facebook group HCI Across Borders⁴ is the most active channel and was initially used to recruit organizers. We will also recruit participants from other communities that cross borders within HCI, such as

²<http://www.hcixb.org/>

³<https://medium.com/hccxb>

⁴<https://www.facebook.com/groups/hciXb/>

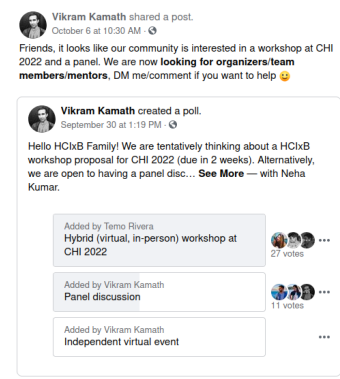


Figure 2: Our workshop is shaped by our community.

ArabHCI [13], Latin American HCI [14], EduCHI [11], AfriCHI [6], and other such communities.

Our volunteers will serve as committee members to handle submissions, recruitment of panelists, logistics, and publicity. We plan to invite participation from a diverse global audience, including traditionally underrepresented groups at CHI, to help us better understand borders in HCI research, education, and practice.

5 WORKSHOP STRUCTURE

The four-hour workshop will be held virtually (see Table 1). We expect to have a panel discussion, poster session, and group discussions, ultimately converging as a whole group on our next steps. After the poster decisions, we will post the final agenda and the schedule on the website.

We will start with a panel discussion introducing our community's themes and challenges, which will shape the workshop. Our panel members will discuss challenges and opportunities that create borders and bridges at career levels, geographies, and internet access levels. We expect the panel to introduce key themes (e.g., internet access issues, geographical challenges, improved access).

We will split into smaller breakout rooms following a short break, based on key themes for our subsequent sessions. In our breakout rooms, we will have poster sessions where each participant will discuss their ideas in the context of the theme. We expect members to discuss the posters and for groups to reflect on emerging insights and solutions.

We will regroup in the final session to share our key insights from the breakouts after another break. We will spend the second half of the last session collectively synthesizing ideas into themes to consider for the sustainability of an increasingly virtual/hybrid community (e.g., *What do various borders in HCI look like?, What can we do about them?*). A final report will be shared as a blog post to continue the conversation with the global HCIXB community.

6 POST-WORKSHOP PLANS

This year our goal is to provide opportunities for researchers to reflect on borders in their research, practice, and/or education. We expect these discussions to lay the groundwork for future events based on key themes discussed in the workshop. We aim for the following outcomes.

Time	Activity
15 mins	Welcome from the organizers
60 mins	Panel discussion and themes introduced
15 mins	Break: <i>optional—social breakout rooms</i>
30 mins	Poster presentation in themed breakout rooms
45 mins	Feedback and discussions in themed breakout rooms
15 mins	Break: <i>optional—social breakout rooms</i>
60 mins	Reflections and synthesis

Table 1: Proposed Agenda for HCIxB 2022

- Authors will receive feedback on their ideas and find connections to community members beyond the workshop.
- Each breakout group will be invited to publish their emergent insights as blog posts on Medium, either the Human-Centered Computing Across Borders or Voices of SIGCHI publications⁵.
- We will collectively create a final report (as a blog post) for the HCIxB community.
- We expect future conversations among subgroups (e.g., region-specific, early-career, etc.), which may evolve into events that continue throughout the year.

7 CALL FOR PARTICIPATION

HCI Across Borders (HCIxB) is a community developed through six years of concerted efforts, focusing on connecting research and researchers on various margins, located across different cultures and geographies. It started as the Development Consortium at CHI 2016, followed by workshops at CHI 2017 through 2021. Today, it has evolved into a collaborative initiative with a shared mission to foster community across geographies, backgrounds, methodologies, and other boundaries.

The HCIxB workshop at CHI 2022 will be a unique venue to showcase HCI-related work and initiatives from communities across geographies to a global audience. **This workshop will focus on “Navigating Shifting Borders at CHI”.** *Borders* here may refer to boundaries related to nations, geographies, research interests, disciplines, methodologies, and more.

We invite participants to share how historical and pandemic-related issues have shaped their research, practice, or education. We hope to start a discussion to address challenges that we face as a group and as individuals. We welcome broad participation.

At least one author from an accepted submission must register for the workshop to participate. The workshop website is at <https://hcixb.org>.

8 SUBMISSIONS

Those interested in participating are asked to submit a position paper (300-500 words, single column, PDF format preferred) and a single-page CV on hcixb2022.hotcrp.com. This year, we are also open to more variable submission formats, and welcome videos, blog posts, abstracts, or pictorials that express diverse perspectives on our theme.

⁵<https://medium.com/sigchi/tagged/voices-of-sigchi>

Below are some questions applicants may wish to consider answering in their submissions:

- Who are you? Please include your department, year of study, organization, etc.
- In what context are you working? What are the social, political, or cultural conditions you contend with in your work?
- What problems are you addressing? What solutions, if any, are you hoping to deliver?
- How has the pandemic affected your research, education, and/or practice?
- How do you think attending HCIxB 2022 will be beneficial to your work and the communities you connect with?

Important Dates

- February 24: All submissions due
- March 1: Participant notifications sent
- March 31: Camera-ready versions due

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