# Team

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Co-Principal Investigator, GDS Program Director, School of Industrial Design

# **Dominique Marshall**

Co-Principal Investigator, GDS Program Professor, Department of History

### Chiara Del Gaudio

Investigator, GDS Program Assistant Professor, Graduate Program Coordinator, School of Industrial Design

### **Kerry Grace**

Program Coordinator, GDS Program

### **Research Assistant Coordinators**

Ona Bantjes-Ràfols, Maya Chopra, · · · Amie Wright

### **Emmanuel Mutungi**

Regional Expert for Africa, GDS Program Dean, School of Art and Industrial Design, Kyambogo University

### Raquel Noronha

Regional Expert for Latin America, GDS Program Adjunct Professor and Director of Design and Technology, Head of Graduate Program in Design, Federal University of Maranhão

# Yoko Akama

Regional Expert for Asia, GDS Program Associate Professor, Communication Design, School of Design, Royal Melbourne Institute of Technology University, Australia

### **Amina Mire**

Gender Expert, GDS Program Associate Professor, Sociology, Undergraduate Program Coordinator, Carleton University

"The enthusiasm shown by our colleagues in Africa, Latin America and Asia is clearly indicative of how important community-oriented STEAM work with a focus on Gender is."

Bjarki and Dominique

# Gendered Design in STEAM

From April 2019 to October 2022, the GDS Program has been investigating and advancing gendered design through 20 grant-awarded projects with scholars at institutions across the global souths. The Program aimed to contribute to more inclusive technological designs in science, technology, engineering, the arts and math by building capacity in gendered design and innovations to address challenges and biased perceptions predominantly faced by women in low- and middle-income countries (LMICs). The gendered design approach brings diverse and critical perspectives to the design process to reshape how we identify design challenges, the process to address them, the solutions to these challenges, as well as the reach of their benefits.

# What is STEAM?

To support STEM researchers to be more socially focused, we adjusted our terminology from STEM to STEAM. To fully affirm the relevance of this approach for the desired socio-technical transformation, we included the arts and social sciences as full partners in the program.









# **\$1.6** Million Grants

13 Countries

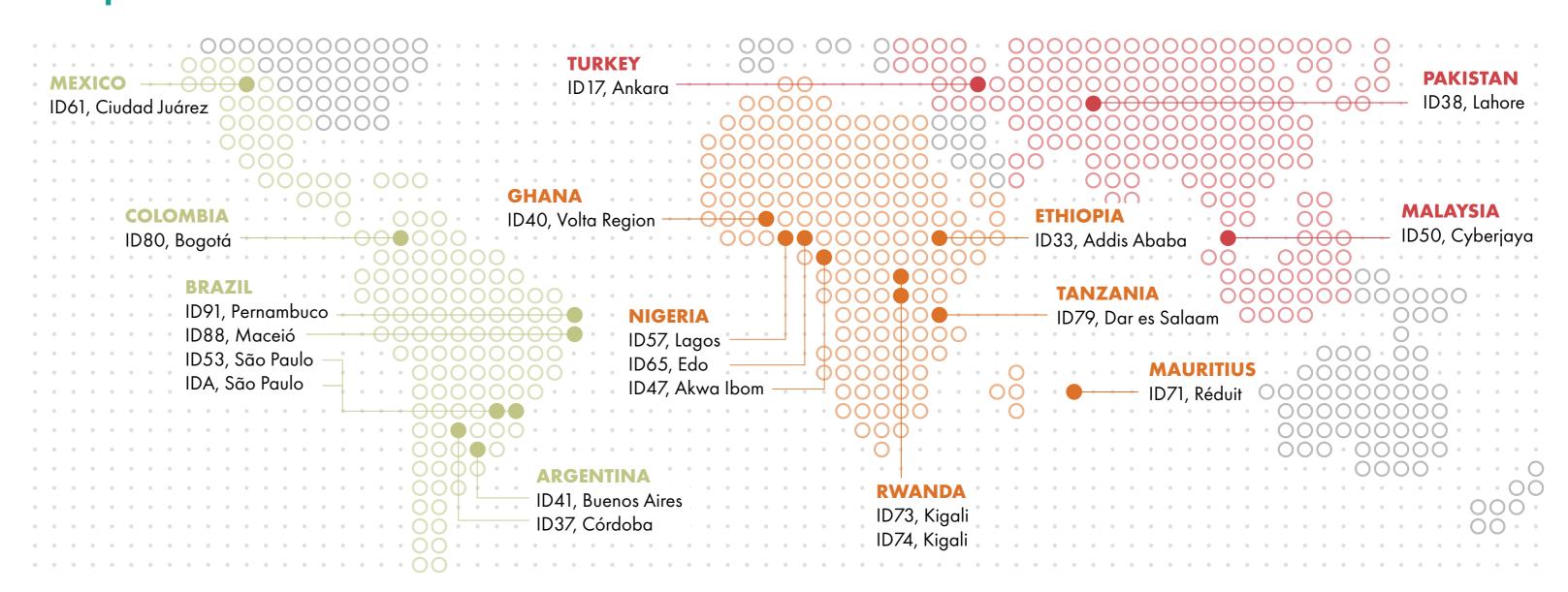
Academic **Research Teams** 

**Prototype Intensive Research Projects** 

Research Case **Studies** 

Carleton Research

# **Projects**



### **Sector Experts**













Adam Weiss

Chiara Del Gaudio Industrial Design Fred Afagh Mechanical & Aerospace Engineering Jill Wigle Geography & Environmental Studies

Katie Bonier Architecture & Urbanism Mika Westerlund SPROTT School of Business

Journalism & Communication

Interdisciplinary Science Tracey Lauriault

Vivian Nguyen

Environmental &

# Methods and Tools

- O Transdisciplinary designed-based approach to the research: iterative, abductive, strategic, and open processes
- 'Research-through-design' approach from a Participatory Design perspective: where knowledge is built from practical experimentation with design processes
- Activities and workshops that encouraged networking and collaborative knowledge building on gendered design
- Ad-hoc designed knowledge mobilization tools e.g., GDS Bulletin publication

# Outcomes

- O Developed definitions of gendered design built upon local context and knowledge
- Mobilized a strong collaboration between academics and communities in the Northern and Southern hemispheres
- Supported and enhanced Southern and Indigenous academic voices, approaches, and cultures
- Increased the visibility of local communities studied by these scholars
- O Promoted the dissemination of Southern research results
- Created opportunities for researchers across the Carleton campus to work together with a common goal and do interdisciplinary work
- Design Research Society paper acceptance and presentation

# **Timeline**



# Learn more



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GenderedDesign STEAM

A partnership between



