

Hrishikesh Rao

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Education

- 09/2018 – present **University of Michigan School of Information**
Ann Arbor, MI PhD in Human-Computer Interaction (Pre-Candidate)
Advisor: Sile O'Modhrain, Joyojeet Pal
- 09/2016 – 05/2018 **MSI in Human-Computer Interaction (2018)**
Ann Arbor, MI GPA: 3.6
- 08/2012 – 06/2016 **Manipal Institute of Technology, Manipal University**
Manipal, India B.Tech in Mechatronics

Professional Experience

- 06/2018 – 07/2018 **Smith Kettlewell Eye Research Institute, Visiting Researcher**
San Francisco, CA Developed a design framework for non-braille audio-tactile representation of tactile maps and graphics for visually impaired people, on full page refreshable braille display.
- 06/2017 – 09/2017 **IBM Research, Yorktown Heights, Research Intern**
Yorktown Heights, NY Developed a storytelling framework for soup kitchen agencies to adopt in their campaigns based on the data collected over a period of two decades.
- 02/2016 – 06/2016 **Cisco Systems, Design Intern**
Bengaluru, India Developed an android tool to simplify the deployment and monitoring of LoRa based IOT sensor network on large farmlands and indoor office spaces.

Publications

Conference Publications & Demonstration:

- Demo.02 **Hrishikesh Rao** and Sile O'Modhrain. 2019. *Multimodal Representation of Complex Spatial Data*. In Extended Abstracts of the CHI '19. Glasgow, UK.
- Demo.01 Alexander Russomanno, **Hrishikesh Rao**, Thanasarn Tantivirun, Sile O'Modhrain, and R. Brent Gillespie. *A Tactile Display with Touch Sensing using a High-Density Microfluidic Chip*. IEEE Haptics Symposium 2018, San Fransisco, CA

Workshop & Doctoral Consortium:

Workshop.01 Vaishnav Kameswaran, Maulishree Pandey, Josh Guberman, **Hrishikesh Rao**, Sile O'Modhrain. (2019). *Experiences of Mobility in the Global South: Lessons from People with Visual Impairments in India*, In Hacking Blind Navigation Workshop of the CHI 2019, Glasgow, UK, May 19.

Teaching & Independent work

12/2017 – 06/2018 **Independent Project – Haptix Lab, UM Engineering**
University of Michigan Worked on development and programming of microfluidic braille display to demonstrate co-located input-output braille keyboard and display. Work demonstrated at Haptics Symposium 2018

09/2017 – 05/2018 **Teaching Assistant – Career and Internship Studio (SI300, SI505)**
University of Michigan Led discussion among groups of bachelors and masters students to help them apply and secure summer internships. Discussions focused on improving portfolio presentation and describing prior work experience.