

Faraz Faruqi

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Education

Massachusetts Institute of Technology

PH.D. IN COMPUTER SCIENCE

Cambridge, MA

2022 - Present

Massachusetts Institute of Technology

M.S. IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

Cambridge, MA

2020 - 2022

Manipal Institute of Technology

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING.

Karnataka, India

2015 - 2019

Publications

Style2Fab: Functionality-Aware Manipulation for Fabricating Personalized 3D Models with Generative AI

ACM SYMPOSIUM ON USER INTERFACE SOFTWARE AND TECHNOLOGY (UIST)

2023

Faruqi F., Katary A., Hasic A., Abdel-Rahman A., Rahman N., Tejedor L., Hofmann M. Mueller S.

A Large-Scale Analysis of Manufacturing Challenges for Crowdfunded Electronic Devices

(In Submission)

TRANSACTIONS ON COMPUTER-HUMAN INTERACTION (TOCHI)

2023

Faruqi F., Leake M., Tang B., Katary A., Hodges S., Mueller S.

Selective Self-Assembly using Re-Programmable Magnetic Pixels

(October 2022)

INTERNATIONAL CONFERENCE ON INTELLIGENT ROBOTS AND SYSTEMS (IROS 2022)

Nisser M., Makaram Y., Faruqi F., Suzuki R., Mueller S.

Mixels: Fabricating Interfaces using Programmable Magnetic Pixels

(October 2022)

ACM SYMPOSIUM ON USER INTERFACE SOFTWARE AND TECHNOLOGY (UIST 2022)

Nisser M., Makaram Y., Covarrubias L., Bah A., Faruqi F., Suzuki R., Leake M., Mueller S.

G-ID: Identifying 3D Prints Using Slicing Parameters

April 2020

CONFERENCE ON HUMAN FACTORS IN COMPUTING SYSTEMS (CHI), 2020

Dogan Doga M., Faruqi F., Churchill A., Friedman K., Cheng L., Subramanian S., Mueller S.

Deep Convolution Neural Network for Malignancy Detection and Classification in Microscopic Uterine Cervix Cell Images

November, 2019

ASIAN PACIFIC JOURNAL OF CANCER PREVENTION

Shanthi P.B., Faruqi F., Hareesha K.S., Kudva R.

“Is This A Joke?”: A Large Humor Classification Dataset

July, 2018

INTERNATIONAL CONFERENCE ON NATURAL LANGUAGE PROCESSING (ICON), 2018

Faruqi F., Shrivastava M.

Short Papers and Demonstrations

Code-theoretic Assembly of Molecular Machines

October, 2023

INTERNATIONAL CONFERENCE ON INTELLIGENT ROBOTS AND SYSTEMS (IROS 2023)

Nisser M. Faruqi F., Luo X., Berleant J., Bathe M. Mueller S.

SliceHub: Augmenting Shared 3D Model Repositories with Slicing Results for 3D Printing

May, 2022

CONFERENCE ON HUMAN FACTORS IN COMPUTING SYSTEMS (CHI), 2022

Faruqi F., Friedman K., Cheng L., Wessely M., Subramanian S., Mueller S.

ChromoPrint: A Multi-Color 3D Printer Based on a Reprogrammable Photochromic Resin

May, 2022

CONFERENCE ON HUMAN FACTORS IN COMPUTING SYSTEMS (CHI), 2022

Qamar I., Chen S., Tskhovrebadze D., Boni P., Faruqi F., Wessely M., Mueller S.

Community Leadership & Teaching

Brave Behind Bars, The Educational Justice Institute

MIT, Cambridge

CO-LEAD, COACH

Summer, 2022

- A college-accredited introductory computer science and career-readiness program for currently incarcerated men and women.
- My responsibilities include designing the curriculum, leading classes, and mentoring students with class projects.

ACM CHI 2023 Organizing Committee

MIT, Cambridge

ASSISTANT TO THE PAPER CHAIRS

2022

- ACM CHI Conference on Human Factors in Computing Systems is the premier international conference of Human-Computer Interaction (HCI).
- My responsibilities include facilitating the Paper Chairs in administration responsibilities, setting up automated methods for communication, task assignment, etc.

6.810 Engineering Interactive Technologies

MIT, Cambridge

CO-INSTRUCTOR AND TEACHING ASSISTANT

Fall, 2021

- MIT Undergraduate class teaching skills in building cutting-edge interactive technologies and explaining the underlying engineering concepts. Students use a studio format for constructing software and hardware prototypes on topics include interactive technologies, such as multi-touch, augmented reality and wearables.
- My responsibilities included revamping the course material for the course, writing instructions for labs and problem sets, testing hardware and software, and writing supporting documentation. During class, I helped students in assignments, and mentored students for projects.

Graduate Application Assistance Program (GAAP)

MIT, Cambridge

GRADUATE STUDENT MENTOR

2021

- Initiative for underrepresented groups included first-generation students, gender minorities, students from low-income families, for their graduate school applications.
- Mentored 3 students as part of the program - providing guidance and feedback to students applying for graduate school.
- Supported the students in writing research proposals and personal statements.

ACM User Interface Software and Technology Symposium (UIST)

Virtual (previously Minneapolis, USA)

STUDENT VOLUNTEER

October, 2020

- Provided assistance for setup, registration, and other technical tasks in the conference, held virtually on Discord.

Sanitation and Education Campaign

Uttar Pradesh, India

CREATOR AND MENTOR

Summer, 2018

- Organized and led a cleanliness and sanitation campaign in villages in Uttar Pradesh, India as part of nation-wide campaign 'Swachh Bharat Abhiyaan' which received Gates Foundation Award.
- Organized Awareness Meets, Door to Door visits, educational campaigns, movie screenings, and demonstration events to teach adults and children in villages about safe management of solid and liquid waste management, and benefits of cleanliness.

Mentoring

Masters' Students

• Ben Tang (July - December 2021)

MIT SDM Program

• Leandra Tejedor (January 2023 - Present)

MIT IDM Program

Undergraduate Students

• Leon Cheng (January - May, 2020)

UROP

• Brian Huang (June - August, 2021)

UROP

• Sohini Kar (September - November, 2021)

UROP

• Xinran (Nancy) Wang (2022)

UROP

• Ahmed Katary (2022)

UROP

• Tarik Hasic (2023)

UROP

• Nayeemur Rahman (2023)

UROP