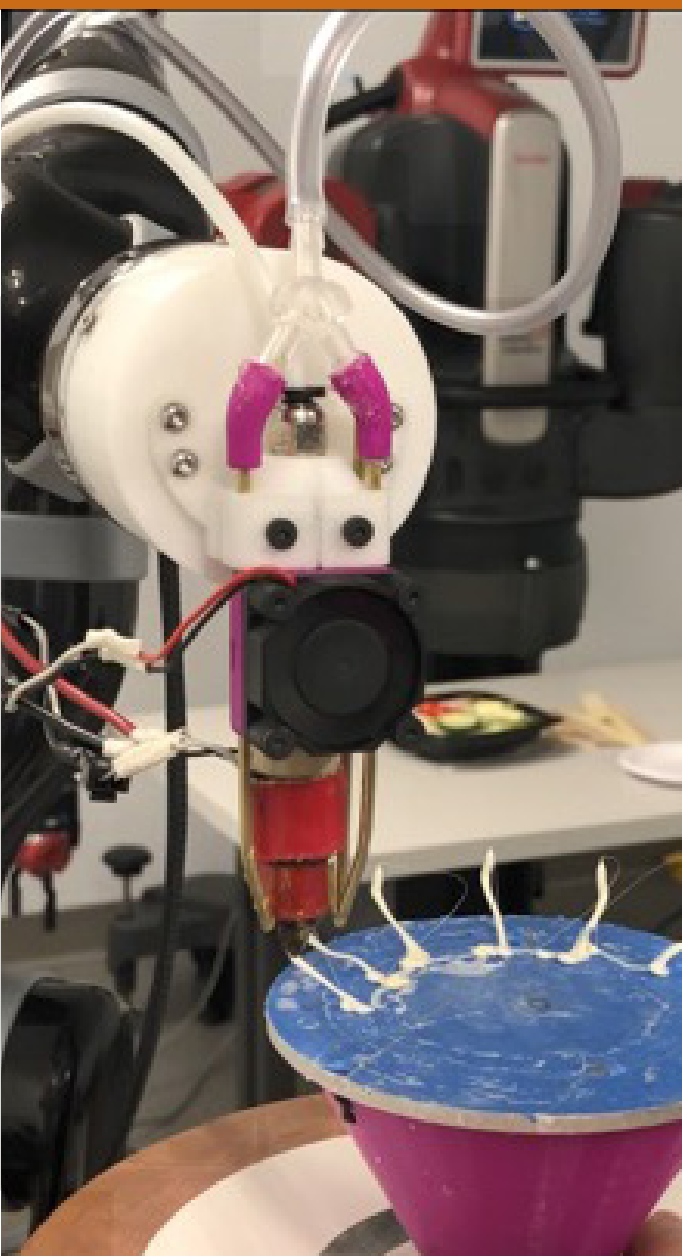




HCI ENGINEERING GROUP



The HCI Engineering Group works at the intersection of human-computer interaction and personal fabrication tools.

**Group Lead**

Stefanie Mueller

Telephone: 617-715-5831

Email: stefanie.mueller@mit.edu

CSAIL / MIT**Website:**

hcie.csail.mit.edu/

Location:

The HCI Engineering Group is located in the Ray and Maria Stata Center at MIT, Room 32-214.

Research Group Address:

HCI Engineering Group

MIT CSAIL

32 Vassar Street

Cambridge, MA 02139

Research Vision

Our long-term vision is that in the future, anybody will be able to create anything anywhere anytime. Working toward this goal, we build novel hardware and software systems that advance personal fabrication technologies.

Areas of Research

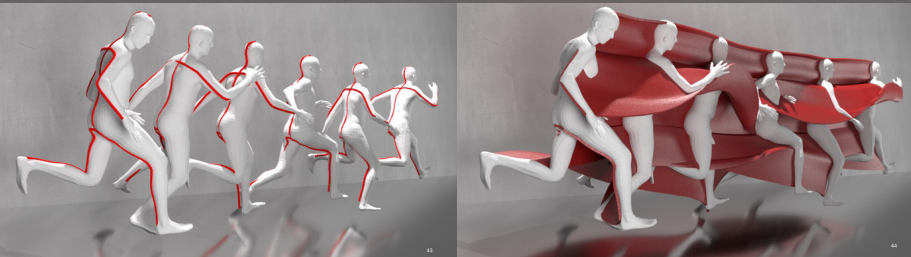
- Human-computer interaction
- Personal fabrication technologies

Research Activities

- Interactive surfaces and tools
- User interaction data
- 3D-printed objects

Industry Applications

- Education
- Energy
- Entertainment
- Health care
- Internet of things
- Manufacturing



In the News

- A new tool called Fabricaide enables [less-wasteful laser-cutting](#) by giving feedback on a design's feasibility and analyzing how much material is used.
- The HCI Engineering Group has developed [sprayable user interfaces](#) that let users create room-sized interactive surfaces with sensors and displays.
- A new system developed by the group can [print fully functional drones](#) and other custom-made devices and robots, without human intervention.

“Beyond engineering, we’re also thinking about how this kind of one-stop shop for fabrication devices could be optimally integrated into today’s existing supply chains for manufacturing, and what challenges we may need to solve to allow for that to happen. In the future, people shouldn’t be expected to have an engineering degree to build robots, any more than they should have a computer science degree to install software.”

– Martin Nisser, PhD student



Current People in the HCI Engineering Group

Principal Investigator
Stefanie Mueller

Postdoc, Graduate, and MEng Students

Michael Wessely
Yoonji Kim
Dishita Turakhia
Martin Nisser
Junyi Zhu
Mustafa Doga Dogan
Ticha Sethapakdi
Faraz Faruqi
Diego Pinochet
Yunyi Zhu
Leon Cheng
Joshua Verdejo
Olivia Seow
Sabina Chen
Mihir Trivedi
Ngai Hang Wu