

Yunyi Zhu - CV

Ph.D. Candidate

MIT Electrical Engineering & Computer Science Department

MIT Computer Science and Artificial Intelligence Lab

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Education

Massachusetts Institute of Technology, Cambridge, MA

2021 - now

Ph.D. in Computer Science

MIT EECS Department

Advisor: Stefanie Mueller

Massachusetts Institute of Technology, Cambridge, MA

2020 - 2021

MEng. in Computer Science

MIT EECS Department

Advisor: Stefanie Mueller

Massachusetts Institute of Technology, Cambridge, MA

2016 - 2020

S.B. in Computer Science and Engineering

MIT EECS Department

Minor in Design

Advisor: Stefanie Mueller

Full Paper Publications

- [8] **Yunyi Zhu**, Qingyuan Li, Katherine Arianna Yan, Emily Guan, Alexandru Luchianov, Eden Hen, Stefanie Mueller. ChromoLCD: LCD-based Compact Reprogrammer for On-the-fly High-Resolution Images on Photochromic Surfaces. In *Proceedings of ACM TEI 2026*. (to appear)
- [7] Cedric Honnet, Wedyan Babatain, Yiyue Luo, Ozgun Kilic Afsar, Chloe Bensahel, Sarah Nicita, **Yunyi Zhu**, Andreea Danielelescu, Neil Gershenfeld, Joseph A. Paradiso. FiberCircuits: A Miniaturization Framework To Manufacture Fibers That Embed Integrated Circuits. In *Proceedings of ACM UIST 2025*.
- [6] Faraz Faruqi, Maxine Perroni-Scharf, Jaskaran Singh Walia, **Yunyi Zhu**, Shuyue Feng, Donald Degraen, and Stefanie Mueller. TactStyle: Generating Tactile Textures with Generative AI for Digital Fabrication. In *Proceedings of ACM CHI 2025*.
- [5] **Yunyi Zhu**, Cedric Honnet, Yixiao Kang, Junyi Zhu, Angelina J. Zheng, Kyle Heinz, Grace Tang, Luca Musk, Michael Wessely and Stefanie Mueller. PortaChrome: A

Portable Contact Light Source for Integrated Re-Programmable Multi-Color Textures. In *Proceedings of ACM UIST 2024*.

- [4] Jiani Zeng*, Honghao Deng*, **Yunyi Zhu***, Michael Wessely, Axel Kilian and Stefanie Mueller. Lenticular Objects: 3D Printed Objects with Lenticular Lens Surfaces that Can Change their Appearance Depending on the Viewpoint. In *Proceedings of ACM UIST 2021*. [* equal contribution]
- [3] Junyi Zhu, **Yunyi Zhu**, Jiaming Cui, Leon Cheng, Jackson Snowden, Mark Chounlakone, Michael Wessely and Stefanie Mueller. MorphSensor: A 3D Electronic Design Tool for Reforming Sensor Modules. In *Proceedings of ACM UIST 2020*.
- [2] Junyi Zhu, Lotta-Gili Blumberg, **Yunyi Zhu**, Martin Nisser, Ethan Levi Carlson, Xin Wen, Kevin Shum, Jessica Ayeley Quaye, and Stefanie Mueller. CurveBoards: Integrating Breadboards into Physical Objects to Prototype Function in the Context of Form. In *Proceedings of ACM CHI 2020*.
- [1] Mustafa Doga Dogan, Ahmad Taka, Michael Lu, **Yunyi Zhu**, Akshat Kumar, Aakar Gupta, Stefanie Mueller. InfraredTags: Invisible AR Markers & Barcodes Using Low-Cost, Infrared-Based 3D Printing & Imaging Tools. In *Proceedings of ACM CHI 2022*.

Extended Abstracts, Posters & Demonstrations

- [7] **Yunyi Zhu**, Cedric Honnet, Yixiao Kang, Junyi Zhu, Angelina J. Zheng, Kyle Heinz, Grace Tang, Luca Musk, Michael Wessely, Stefanie Mueller. Demonstration of ChromoCloth: Re-Programmable Multi-Color Textures through Flexible and Portable Light Source. In *Adjunct Proceedings of the 36th Annual ACM Symposium on User Interface Software and Technology (UIST '23 Adjunct)*.
- [6] Cedric Honnet, **Yunyi Zhu**, Martin Nisser, Chao Liu, Byungchul Kim, Jae Hun Seol, Jongho Lee, Daniela Rus, Stefanie Mueller. Laser-Etching Flexible Sensors for Robotic Touch Recognition. *Poster, IEEE ICRA 2023*.
- [5] Jiani Zeng*, Honghao Deng*, **Yunyi Zhu***, Michael Wessely, Axel Kilian, and Stefanie Mueller. Demonstration of Lenticular Objects: 3D Printed Objects with Lenticular Lens Surfaces That Can Change their Appearance Depending on the Viewpoint. In *Extended Abstracts of the 2022 CHI Conference on Human Factors in Computing Systems (CHI EA '22)*.
- [4] Cedric Honnet, **Yunyi Zhu**, Junyi Zhu, Michael Wessely and Stefanie Mueller. WearaFab: Digital Fabrication for Wearables Toolkits. In *Extended Abstracts of the 2022 CHI Conference on Human Factors in Computing Systems (CHI EA '22)*.
- [3] Mustafa Doga Dogan, Veerapatr Yotamornsunthorn, Ahmad Taka, **Yunyi Zhu**, Aakar Gupta, and Stefanie Mueller. Demonstrating InfraredTags: Decoding Invisible 3D

Printed Tags with Convolutional Neural Networks. In *Extended Abstracts of the 2022 CHI Conference on Human Factors in Computing Systems (CHI EA '22)*.

- [2] Junyi Zhu, **Yunyi Zhu**, Jiaming Cui, Leon Cheng, Jackson Snowden, Mark Chounlakone, Michael Wessely and Stefanie Mueller. Demonstration of MorphSensor: A 3D Electronic Design Tool for Reforming Sensor Modules. In *Adjunct Publication of the 33rd Annual ACM Symposium on User Interface Software and Technology (UIST '20 Adjunct)*.
- [1] Junyi Zhu, Lotta-Gili Blumberg, **Yunyi Zhu**, Martin Nisser, Ethan Levi Carlson, Xin Wen, Kevin Shum, Jessica Ayeley Quaye, and Stefanie Mueller. CurveBoards Demo: Integrating Breadboards into Physical Objects to Prototype Function in the Context of Form. In *Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems (CHI EA '20)*.

Academic Service

Associate Chair

ACM DIS	2026
ACM TEI Late Breaking Work	2025

Reviewer

ACM CHI	2024 - 2026
ACM UIST	2022 - 2025
ACM SCF	2022 - 2023
ACM DIS	2023
ACM C&C	2022
ACM TEI	2021, 2025
ACM SUI	2023

Student Volunteer

ACM CHI	2024, 2022
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Research Internships

Adobe Research , Adobe	2025
Research Intern	
Advisor: Chang Xiao, Eunye Koh	

Kawahara Lab , The University of Tokyo	2022
Visiting Graduate Student	
Advisor: Koya Narumi	

Software Design Group, MIT CSAIL 2019 - 2020
Undergraduate Research Assistant
Advisor: Daniel Jackson

MIT Game Lab, MIT Media Lab 2017
Undergraduate Research Assistant
Advisor: Philip Tan

Work Experience

Mayflower Venues, Charlestown, MA 2018
Web Development Intern, supervisor: Wesley Ripley

Lark Health, Mountain View, CA 2018
Software Engineering Intern, supervisor: Jeff Zira

Awards

Ben Gold Teaching Fellowship, MIT 2024
Jacobs Presidential Fellowship, MIT EECS 2021
EECS Licklider Best Undergraduate Research Award, MIT EECS 2021
Best SuperUROP Award, MIT EECS 2019
Leiserchess Performance Engineering Award, MIT 6.172 2018

Mentoring

Research Project Students

[13]	Jeremy Mrzyglocki	2026	
[12]	Angelina Kwiatkowski	2025-2026	
[11]	Dingning Cao	2025-2026	
[10]	Emily Guan	2024	
[9]	Alex C Luchianov	2024	<i>[MIT EECS Best UROP Award]</i>
[8]	Eden Hen	2024	
[7]	Katherine Yan	2024	
[6]	Andy Li	2023-2024	<i>[MIT EECS Best UROP Award]</i>
[5]	Yixiao Kang	2022	
[4]	Angelina Zheng	2022	
[3]	Kyle Heinz	2022	
[2]	Luca Musk	2022	
[1]	Grace Tang	2021-2022	

Teaching

Instructor / Co-Instructor

Actuated Experiences, MIT Global Teaching Lab

Winter 2025

Teaching Assistant

[4]	6.C35	Interactive Data Visualization & Society, MIT	Spring 2023
[3]	6.033	Computer Systems Engineering, MIT	Spring 2021
[2]	6.046	Design and Analysis of Algorithms, MIT	Fall 2020
[1]	6.033	Computer Systems Engineering, MIT	Spring 2020

Lectures

6.810 **Engineering Interactive Technologies**, Shape-Changing Structures, MIT Fall 2021