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

[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

Reviewer

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

Student Volunteer

ACM CHI	2024, 2022

Research Internships

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

HCI Engineering Group, MIT CSAIL 2018 - 2019
Undergraduate Research Assistant
Advisor: Stefanie Mueller

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

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

[10]	Emily Guan	2024
[9]	Alex C Luchianov	2024
[8]	Eden Hen	2024
[7]	Katherine Yan	2024
[6]	Andy Li	2023
[5]	Yixiao Kang	2022
[4]	Angelina Zheng	2022
[3]	Kyle Heinz	2022
[2]	Luca Musk	2022
[1]	Grace Tang	2021-2022

Teaching Assistantship

6.C35	**Interactive Data Visualization & Society**, MIT	2023
6.033	**Computer Systems Engineering**, MIT	2020, 2021
6.046	**Design and Analysis of Algorithms**, MIT	2020