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: Professor Stefanie Mueller

Massachusetts Institute of Technology, Cambridge, MA 2020 - 2021
MEng. in Computer Science
MIT EECS Department
Advisor: Professor Stefanie Mueller

Massachusetts Institute of Technology, Cambridge, MA 2016 - 2020
S.B. in Computer Science and Engineering
MIT EECS Department
Minor in Design
Advisor: Professor Stefanie Mueller

Publications

[1] Mustafa Doga Dogan, Ahmad Taka, Michael Lu, **Yunyi Zhu**, Akshat Kumar, Aakar Gupta, Stefanie Mueller. 2022. InfraredTags: Invisible AR Markers & Barcodes Using Low-Cost, Infrared-Based 3D Printing & Imaging Tools. In *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems* (CHI '22). ACM.

[2] Jiani Zeng*, Honghao Deng*, **Yunyi Zhu***, Michael Wessely, Axel Kilian and Stefanie Mueller. 2021. Lenticular Objects: 3D Printed Objects with Lenticular Lens Surfaces that Can Change their Appearance Depending on the Viewpoint. In *Proceedings of the 34rd Annual ACM Symposium on User Interface Software and Technology* (UIST ’21). ACM.

[3] Junyi Zhu, **Yunyi Zhu**, Jiaming Cui, Leon Cheng, Jackson Snowden, Mark Chounlakone, Michael Wessely and Stefanie Mueller. 2020. MorphSensor: A 3D Electronic Design Tool for Reforming Sensor Modules. In *Proceedings of the 33rd Annual ACM Symposium on User Interface Software and Technology* (UIST ’20). ACM.

[4] Junyi Zhu, Lotta-Gili Blumberg, **Yunyi Zhu**, Martin Nisser, Ethan Levi Carlson, Xin Wen, Kevin Shum, Jessica Ayeley Quaye, and Stefanie Mueller. 2020. CurveBoards: Integrating Breadboards into Physical Objects to Prototype Function in the Context of Form. In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems* (CHI '20). ACM.

[5] Junyi Zhu, Lotta-Gili Blumberg, **Yunyi Zhu**, Martin Nisser, Ethan Levi Carlson, Xin Wen, Kevin Shum, Jessica Ayeley Quaye, and Stefanie Mueller. 2020. 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). ACM.

Conference Service

Reviewer

ACM TEI	2021
ACM CHI EA	2022
ACM C&C	2022
ACM UIST	2022

Student Volunteer

ACM CHI	2022

Research Internships

HCI Engineering Group, MIT CSAIL — 2020 - now
Graduate Research Assistant, MIT EECS
Advisor: Professor Stefanie Mueller

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

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

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

Industry 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

[1]	Grace Tang	2021-2022
[2]	Luca Musk	2022

Teaching Assistantship

6.033 **Computer Systems Engineering**, MIT 2020, 2021

6.046 **Design and Analysis of Algorithms**, MIT 2020