

Marwa AlAlawi - CV

Ph.D. Candidate
MIT Mechanical Engineering Department
MIT Computer Science and Artificial Intelligence Lab
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Education

- Massachusetts Institute of Technology**, Cambridge, MA 2023- Present
Ph.D. in Mechanical Engineering
MIT Mechanical Engineering Department
MIT Computer Science and Artificial Intelligence Lab
Advisor: Professor Stefanie Mueller
- Massachusetts Institute of Technology**, Cambridge, MA 2021- 2023
M.Sc. in Mechanical Engineering
MIT Mechanical Engineering Department
MIT Computer Science and Artificial Intelligence Lab
Advisor: Professor Stefanie Mueller
- Massachusetts Institute of Technology**, Cambridge, MA 2016 - 2020
B.Sc. in Mechanical Engineering
MIT Mechanical Engineering Department
Additional Coursework in EECS and Japanese Studies
Advisor: Dr. Brian Anthony

Publications

- [3] **M. AlAlawi**, N. Pacik-Nelson, J. Zhu, B. Greenspan, A. Doan, B. Wong, B., Owen-Block, S. Mickens, W. Schoeman, M. Wessely, A. Danielescu, Stefanie Mueller. "MechSense: A Design and Fabrication Pipeline for Integrating Rotary Encoders into 3D Printed Mechanisms," In Proceedings of CHI 2023.
- [2] **M. AlAlawi** & B. Wong "LeviCircuits: Adhoc Electrical Circuit Prototyping using Ultrasound Levitation," UIST '22 Adjunct, SIC, October 2022

- [1] **M. AlAlawi**, “Design of a Virtual Environment for Physiological and Subjective Monitoring of User Presence in VR,” B.Sc. thesis, Massachusetts Institute of Technology, May 2020

Selected Press Features

- [4] **MISTI, A Launchpad Into MIT Students’ Careers While Helping them Become Global Citizens**, MIT Science & Technology Initiative, June 2023
- [3] **3D-Printed Revolving Devices can Sense How They are Moving**, MIT News, March 2023
- [2] **In a First for GCC, MISTI Program to Be Launched in Bahrain**, Bahrain News Agency, December 2022
- [1] **Marwa AlAlawi, MechE, class of 2020 @ Gree Japan**, MIT Japan Program, January 2022

Research Internships

- Device Realization Group** , MIT Mechanical Engineering 2019-2020
Undergraduate Research Assistant
Advisor: Dr. Brian Anthony
- Personal Robots Group**, MIT Media Lab 2019
Undergraduate Research Assistant
Advisor: Professor Cynthia Breazeal
- MIT Biomimetics Lab**, MIT Mechanical Engineering 2017
Undergraduate Research Assistant
Advisor: Professor Sangbae Kim

Work Experience

REACT NEURO , Cambridge, MA, USA Virtual Reality Experience Designer, supervisor: Dr. Shaun Patel	2020-2021
GREE , Tokyo, Japan XR Intern, Supervisor: Ken Watanabe	2018

Teaching Experience

Teaching Assistantship

[5]	2.00b	Toy Product Design , MIT	Spring 2022
[4]	2.009	Product Engineering Processes , MIT	Fall 2020
[3]	2.00b	Toy Product Design , MIT	Spring 2020
[2]	Bootcamp	MehtA+ Introduction to ML , MehtA+	Summer 2020
[1]	8.01	Mechanics , MIT	Fall 2017

Co-instructing

[2]	MISTI	MIT International Science & Tech Initiative , Bahrain	Winter 2023
[1]	MISTI	MIT International Science & Tech Initiative , Jordan	Winter 2020

Shop Training

MIT Makerworkshop	Student Machine Shop Mentor , MIT	2019- Present
MIT Makerlodge	Student Machine Shop Mentor , MIT	2017-2018

Mentoring

All students are co-advised by Professor Stefanie Mueller

Undergraduate Research Assistants (UROP)

[1] Wilhelm Schoeman	2022	[5] Brandon Wong	2022-2023
[2] Shanti Mickens	2022	[6] Adelene Chan	2023- Present
[3] Benjamin Owen-Block	2022	[7] Lisa Li-Liang	2023- Present
[4] Andrew Doan	2022		

Invited Talks

MIT, MISTI Tech Re-unions, <i>MISTI: Supporting Global Changemakers</i>	2023
3D Micro Printing, <i>3D-Printed Revolving Devices with Integrated Sensors</i>	2023
MIT, International Women's Day, <i>Networking & Building Community</i> , hosted by MIT Japan & MIT South Asia India	2023
American University of Bahrain, <i>Novel Material Technologies</i>	2023
MIT, MISTI Alumni Career Panel, <i>Career, Culture and Language Barriers</i> , hosted by Eduardo Rivera	2021
CleverPlay, The STEMCast, <i>Mechanical Engineering Through HER Eyes</i> , hosted by Latifa AlKhalifa	2021
The National Space Science Agency, NSSA Symposium, <i>Women in STEM: Investigating Space Through Virtual Reality</i> , hosted by Latifa AlKhalifa	2021
The Hill Editorial, <i>Aspiration and Resilience: The New Space Age</i> , hosted by Steve Clemons and Embassy of the United Arab Emirates	2021
MIT, MIT Nano Explorations, <i>Design of a Virtual Environment for Physiological and Subjective Monitoring of User Presence in VR</i> , hosted by Dr. Brian Anthony	2020
University of Bahrain, UOB Pep Talks, <i>KanKan: Kanji to Katakana Physical OCR Translator</i> , hosted by The English Language Center (ELC)	2019

Awards

MIT MISTI Ambassador Award, MIT	2023
Crown Prince International Scholarship, Bahrain	2014 - Present
Pi Tau Sigma (PTS) Mechanical Engineering Honor Society, MIT	

Volunteering

Japanese Guest Liaison (Anime Boston), Boston, MA	2023
Showa Japan Women's University College Connection Mentor, Boston, MA.	2022-2023
Fellowship for Japanese High School Students, Boston, MA	2023
UIST Conference Student Volunteer, Bend Oregon	2022
Academic Paper Reviewing	2022- Current

References

Professor Stefanie Mueller

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Dr. Brian Anthony

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Professor David Wallace

Professor
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