Wendy Trattner

Education

2017-2021

Massachusetts Institute of Technology

Candidate for Bachelor of Science in Mechanical Engineering

Relevant Coursework

- Mechanics and Materials
- Dynamics and Controls I & II
- Design & Manufacturing I & II
- Thermal-Fluids Engineering
- Computation in Python, Matlab
- Differential Equations
- Electricity & Magnetism
- Entrepreneurship in Engineering

Work Experience

Fall 2019 - Present

MIT Computer Science and Artificial Intelligence Laboratory, Distributed Robotics Lab - *Cambridge, MA*

Soft Robotics Undergraduate Researcher

Designed, fabricated, and tested sensorized handed shearing auxetics for soft robotic gripping | Projects focusing on development of soft, adaptive robotic grippers for applications in recycling/trash management, robotic grocery packing, and more.

Summer 2019

Lyft Level 5 - *Palo Alto, CA*

Mechanical Analysis and Reliability Intern

Performed vehicle noise, vibration, and harshness (NVH) analysis and testing | Designed, tested, and performed modal analysis on new camera mounts; determined feasibility of mounting locations | Determined acoustic targets and noise abatement methods for new generation of autonomous vehicles.

2018-2019

Solar Electric Vehicle Team - *Cambridge, MA*

Mechanical/Aero/Composites Engineer

Designed and optimized driver roll cage for safety and efficiency using SolidWorks | Trained and supported new members | Manufactured crush zone and outer body, performed various composite layups | Secured sponsorship, assisted with public outreach and media.

Summer 2018

Solar Powered Drone Research - *Cambridge, MA; Wayqecha, Peru*

Photovoltaic Engineer

Designed, built, and integrated custom solar panels to power an automated quadcopter for rainforest conservation data collection | Tested product in Peruvian Amazon Rainforest in collaboration with MIT ESI, MIT PV Lab, and Conservation International | Created written reports to secure further funding and patents.

2016-2017

MIT Koch Institute for Integrative Cancer Research, Yilmaz Lab - *Cambridge, MA*

Research Assistant

Investigated the dietary effects of fasting and high fat diet on intestinal stem cell function in the context of tissue regeneration and colorectal cancer initiation | Contributed data to 2 papers and helped optimize novel transplantation technique published in Nature |

Extra Curriculars

Fall 2019

MIT Women's Independent Living Group (WILG) Food Steward & Exec Member

As an elected exec member of WILG, I was able to reduce food waste by about 50% while saving $5000+ and increasing the ratio of wholesome foods to junk foods. In addition, I spearheaded the implementation of a composting program for both WILG and the nearby fraternity ADP, for a total of 80 people.

2018-Present

Lean0nMe Peer Supporter & Exec Member

Lean 0n Me is an anonymous peer support texting hotline focused on improving mental health on college campuses and combating suicide statistics. It automatically and anonymously connects students in need of support with trained peer supporters who attend their school.

2017-2018

MIT Climate Action Team Event Coordinator

MITCAT is an undergraduate group which advocates for environmental justice via political, corporate, and educational action. As part of this team, I arranged for several speakers to come to MIT, including economic comedian Yoram Bauman and lead researcher for Project Drawdown Chad Frischmann.

2015-Present

Recreational Poetry, Painting, Rock Climbing, Website Development

My personal website portfolio can be found here: https://wendytrattner.com/

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