# 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

Mechanical design and fabrication of actuators for soft robotic gripping via sensorized handed shearing auxetics | 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 Design for America Project Lead**

DFA is a social impact group where teams of students solve problems in conjunction with community partners. I led a team of 6 students and partnered with Loop, a Terracycle startup working to eliminate the idea of waste by selling products in reuseable packaging. We helped Loop design a new product which will reduce waste from disposable products at large fast food chains.

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**

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

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