

# Justin Yu

617-957-0655 | [www.jsyu.me](http://www.jsyu.me) | [justinyu@mit.edu](mailto:justinyu@mit.edu)

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## EDUCATION

### Massachusetts Institute of Technology

Sept 2018 – June 2022

- **Intended Major/Minor:** Electrical Engineering and Computer Science/Linguistics
- **Relevant Courses:** Machine Learning, Multivariable Calculus, Introduction to Linguistics

### Winchester High School

Sept 2014 - June 2018

- **GPA:** 4.21 out of 4.00 (weighted) | **SAT:** 1580
- **Clubs and Organizations:**
  - **Captain of Robotics Team** July 2016 – June 2018
    - Built and programmed fully autonomous robots in C to perform various tasks (i.e. object detection, color sorting, terrain navigation, line and wall following)
    - Utilized sensor data from stereo cameras, gyroscopes, reflectance sensors
  - **Founder and President of Science Olympiad Team** Sept 2015 – June 2018
- **Coursework:** Independent CS Research Project (Abstractive Summarization: Current Methods and Drawbacks)

## EXPERIENCE

### UROP Researcher at MIT CSAIL (InfoLab)

Sept 2018 - Present

- Implementing sequence models and other ML techniques to generate linguistic annotations in order to inform and improve the output of question-answering systems; used Amazon Turk to collect custom training dataset.
- Applying question-answering technology to MOOC content by building a web-based tool for annotating videos

### Summer Software Engineering Intern at Accion Systems

July 2017 - Aug 2017

- Interned for Accion Systems, a micro-satellite propulsion technology startup; created an interface for reprogramming satellite thruster chips live in space by sending commands to bootloader over UART protocol
- Improved data processing GUI for analyzing thruster test data using tkinter and Python scientific libraries

### Researcher at MIT PRIMES

Feb 2017 – June 2017

- Researched software control systems in collaboration with Head of Software at IPG Photonics
- Research title: Automated calibration and a real-time web-based control interface for fiber lasers.

### Student at MIT Beaver Works Summer Institute

July 2016 – August 2016

- Utilized LIDAR and stereo camera data to implement autonomous navigation, planning, and mapping algorithms for the RACECAR platform, curriculum equivalent of MIT undergraduate class “Robotics: Science and Systems”
- Took rigorous daily lectures on topics such as: autonomous robotics, kinematics, planning and localization etc.

### Co-founder and Director of MAHacks

Aug 2016 – July 2018

- Founded MAHacks, a high school hackathon with a focus on project sustainability and entrepreneurship
- Managed corporate relations and outreach with 20+ sponsor companies, negotiated \$5000+ of sponsorship value

### Board Member and Mentor at Youth CITIES

March 2013 - Present

- Headed creation of 2 web applications that bring digital mentorship to early-stage ventures
- Advised Youth CITIES on program development and strategy; served as a student mentor for 200+ total students

## HONORS/AWARDS

- 1st Place Overall at the New England Botball Robotics Tournament April 2018
- 3<sup>rd</sup> Place at MIT Blueprint Hackathon March 2017
- Opening Speaker at the Massachusetts STEM Summit Nov 2016
- 1st Place Overall at the Global Conference for Educational Robotics June 2015

## SKILLS

- **Computer Science:** Python, Python Scientific Libraries (Numpy, Matplotlib, Pandas), Django, Psq, Javascript, Full-Stack Web Development, C, Java
- **Machine Learning and NLP Libraries:** Tensorflow, Keras, spaCy, NLTK
- **Soft Skills:** Event Organization, Team Management, Conflict Resolution, Public Speaking