ERIC R. CHEN
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EXPERIENCE	IMPROBABLE AI GROUP	Fall 2019 – Present

Research Assistant – MIT CSAIL

Working with Prof. Pulkit Agrawal on deep reinforcement learning methods, specifically efficient exploration and intrinsic curiosity methods for AI robots. This work is funded by Amazon MLRA.

LEARNING AND INTELLIGENT SYSTEMS   Summer 2019 – Winter 2019

Undergraduate Researcher – MIT CSAIL

Researched ways to improve the performance of existing dynamic robotic motion planning and graph search algorithms using lazy heuristics.

LITTLE DEVICES LAB   Summer 2019 – Fall 2019

Undergraduate Researcher – MIT Edgerton

Designed simulation software from the ground up for a swarm robotics system capable of conducting autonomous biochemical synthesis procedures. Developed machine vision systems and data analysis procedures to test a novel biochemical synthesis platform in preparation for a NASA launch to the International Space Station. Applied machine vision to develop and deploy patient monitor reading software free of charge in hospitals worldwide.

INTERACTIVE ROBOTICS GROUP   Fall 2018 – Summer 2019

Undergraduate Researcher – MIT CSAIL

Implemented a learning model capable of predicting dangerous mismatches between autonomous agent behavioral policies in simulated and real world environments, and demonstrated results on a real robot car using ROS.

REV.COM   Summer 2018

Software Engineering Intern

Developed full-stack features to facilitate automated speech-to-text transcription services for a wide range of users and clients worldwide. Designed solutions to issues relating to styling, search, and live update functionality.

MARINE ROBOTICS GROUP   Spring 2018

Undergraduate Researcher – MIT CSAIL

Used machine learning to integrate visual obstacle avoidance into the Remote Explorer (REX) autonomous marine vehicle in preparation for the 2018 Maritime RobotX Challenge, Boston Harbor RoboChallenge, and the ongoing MIT Sea Grant Ocean Acidification project. Implemented and tested separate modeling approaches designed with data quality and availability in mind.

EDUCATION	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Class of 2021

Candidate: MEng in Electrical Engineering & Computer Science

MASSACHUSETTS INSTITUTE OF TECHNOLOGY   Class of 2020

BS in Electrical Engineering & Computer Science
BS in Physics

SKILLS

Python, C++, C, ROS, PyTorch, Tensorflow, Docker, Julia, JavaScript, Bash, SQL, React/Redux, SolidWorks, Git, Affinity Designer

HONORS	MIT Emerson Scholar	2016 – 2018
	First Place in Highest Level (5) of the National French Contest	2015
	USRowing Youth National Championships	2014