ERIC R. CHEN
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EXPERIENCE

IMPROBABLE AI GROUP — Fall 2019 – Present
Research Assistant – MIT CSAIL
Working with Prof. Pulkit Agrawal on novel reinforcement learning research in exploration and intrinsic curiosity for AI robots.

LEARNING AND INTELLIGENT SYSTEMS — Summer 2019 – Winter 2019
Research Assistant – 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
Research Assistant – 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 — 2018 – 2019
Research Assistant – MIT CSAIL
Implemented a learning model capable of predicting 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
Research Assistant – 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 2020
BS in Electrical Engineering & Computer Science
BS in Physics

SKILLS

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

HONORS

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

ADDITIONAL

Special Olympics Coach, Brookline MA — 2017 –Present
US Sailing Bareboat Cruising Certification — 2017
MIT Varsity Men's Lightweight Crew — 2016 –2017
Oakland Strokes Varsity Men's Crew — 2011 – 2016