ERIC CHEN

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EDUCATION

Massachusetts Institute of Technology

M. Eng., Electrical Engineering and Computer Science	2021
B.S., Physics	2020
B.S., Electrical Engineering and Computer Science	2020

PUBLICATIONS

Eric Chen*, Zhang-Wei Hong*, Joni Pajarinen, Pulkit Agrawal. **Redeeming Intrinsic Rewards via Constrained Optimization**, *Conference on Neural Information Processing Systems (NeurIPS)*, 2022.

EXPERIENCE

Aurora Flight Sciences   January 2022 – present
AI/ML Research Engineer, *Dr. Sildomar Monteiro*

- Researching learning from demonstrations with Prof. Pulkit Agrawal (MIT); developing continual reinforcement learning methods for the DARPA ShELL program
- PM and lead developer for S2A2 NASA ULI partnership

Improbable AI Group, MIT CSAIL   September 2019 – January 2022
Graduate Research Assistant, *Prof. Pulkit Agrawal*

- Published a novel method that adaptively balances reward terms in reinforcement learning

MIT 6.832: Underactuated Robotics   February 2021 – May 2021
Graduate Teaching Assistant, *Prof. Russ Tedrake*

Learning and Intelligent Systems Group, MIT CSAIL   June 2019 – December 2019
Undergraduate Researcher, *Prof. Leslie Kaelbling*

- Improved efficiency of graph search algorithms by 25% by using lazy edge evaluations; implemented simulation, baseline methods (A*, LPA*, D* Lite), and profiling code in Julia

Little Devices Lab, MIT Edgerton   June 2019 – September 2019
Undergraduate Researcher, *Jose Gomez-Marquez*

- Prototyped a low-cost rapid disease testing platform (software/hardware); developed software/hardware for a NASA experiment on the International Space Station

Interactive Robotics Group, MIT CSAIL   September 2018 – June 2019
Undergraduate Researcher, *Prof. Julie Shah*

- Implemented safe simulation to real-world transfer of a learned control policy on a robot car using ROS

Rev.com   June 2018 – August 2018
Software Engineering Intern

- Collaborated within a 5-person team to deploy production-ready features for automated speech-to-text transcription services

Marine Robotics Group, MIT CSAIL   January 2018 – May 2018
Undergraduate Researcher, *Prof. John Leonard*

- Designed and integrated visual-based obstacle avoidance on the Remote Explorer (REx) autonomous marine vehicle

HONORS AND AWARDS

National Science Foundation Graduate Research Fellowship Program (NSF GRFP), *honorable mention*	2021
Amazon Web Services Machine Learning Research Awards (AWS MLRA) Grant, $100,000	2020
MIT Emerson Music Scholar	2016 – 2018

SKILLS

Skills	Python, C++, ROS, PyTorch, Tensorflow, Docker, AWS/GCP, Git, Bash, Julia, C#
Selected courses	Statistical Learning Theory, Computational Sensorimotor Learning
	Computer Vision, Embodied Intelligence, Underactuated Robotics, Robotics Science and Systems