

# Dhruv Sreenivas

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## EDUCATION

### **Cornell University**

*M.S. Computer Science*

**GPA:** 4.30/4.0

*B.S. Computer Science, Mathematics*

**GPA:** 3.66/4.0

Ithaca, NY

Aug 2021 - May 2023

Aug 2018 - May 2021

## PUBLICATIONS

- ***Mitigating Covariate Shift in Imitation Learning via Offline Data Without Great Coverage***

Jonathan Chang, Masatoshi Uehara, **Dhruv Sreenivas**, Rahul Kidambi, Wen Sun

*To appear in Advances in Neural Information Processing Systems (NeurIPS) 2021*

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## RESEARCH EXPERIENCE

### **Mila - Quebec AI Institute**

*Research Collaborator*

Montreal, QC (remote)

Apr 2021 – Present

- Doing reinforcement learning research for the LambdaZero project, currently looking into ways to stabilize exploratory algorithms in the drug discovery setting using epistemic uncertainty estimation
- Advised by Profs. Doina Precup and Yoshua Bengio

### **Cornell University - Prof. Wen Sun**

*Undergraduate/Graduate Researcher*

Ithaca, NY

Sep 2020 – Present

- **Fall 2020:** Joint representation learning in imitation learning settings with high-dimensional state spaces
- **Spring 2021:** Model-based offline imitation learning
- **Fall 2021:** More representation learning in the IL setting, IL in computer graphics applications

### **Cornell University - Prof. Claire Cardie**

*Undergraduate Researcher*

Ithaca, NY

Feb 2020 – Apr 2020

- Worked on an argument generation research project
- Developed sequence-to-sequence BERT-based neural network models in PyTorch to determine most impactful features of good arguments (experience ended early due to COVID-19)

## INDUSTRY EXPERIENCE

### **Amazon Web Services**

*Software Development Engineer Intern*

Boston, MA

Jun 2021 – Aug 2021

- Worked on AWS Boost team, aggregating seller data and developing a performance metric to rank sellers on the platform
- Developed a UI for sellers to see how well they're doing

### **Cornell Cup Robotics**

*Machine Learning Team Member*

Ithaca, NY

Oct 2020 – May 2021

- Used Haystack API from DeepSet AI to develop scalable chatbot Q/A system for R2D2-like robot
- Chatbot is meant to answer questions about Cornell, Star Wars, and relevant news
- Offloaded all heavy-compute machine learning systems for Chatbot onto AWS server to ease workload for main machine

### **Polici**

*Machine Learning Intern*

Ithaca, NY (remote)

Jun 2020 – Aug 2020

- Worked to summarize research articles using simple machine learning, deep learning, and NLP techniques
- Utilized SciKit-Learn and TensorFlow neural network models combined with Hidden Markov models for best results

### **VMware Inc.**

*Data Science Intern*

Palo Alto, CA (remote)

Jun 2020 – Aug 2020

- Did data analysis comparing scores from a VMware risk engine with risk scores for devices from a security company
- Constructed random forest models to determine which device features were most indicative of riskiness

- Worked with a few coworkers on sentiment analysis project

## COURSEWORK

### Undergraduate Courses

- OOP & Data Structures (CS 2110)
- Functional Programming (CS 3110)
- Machine Learning (CS 4780)
- Large Scale ML (CS 4787)
- Undergraduate Computer Vision (CS 4670)
- Algorithms (CS 4820)
- Systems Programming (CS 3410)
- Operating Systems (CS 4410)
- Combinatorics (MATH 4410)
- Number Theory (MATH 3320)
- Intro Analysis (MATH 3110)
- Applicable Algebra (MATH 3360)
- Game Theory (ECON 3801)

### Graduate Courses

- Foundations of Reinforcement Learning (CS 6789)
- Graduate Computer Vision (CS 6670)
- Advanced Machine Learning Systems (CS 6787)
- Deep Generative Models (CS 6785, Spring 2022)
- Advanced Topics in Machine Learning (CS 6784, Spring 2022)

## TEACHING

- **Fall 2021:** Graduate TA for CS 2110 (OOP & Data Structures)
- **Spring 2022:** Graduate TA for CS 4789 (Introduction to Reinforcement Learning)

## NOTABLE AWARDS

- AIME Qualifier (2015-2018) (8/15 on 2017 exam)
- 68th in Massachusetts Mathematical Olympiad (2014)

## SKILLS

**Languages:** Python, Java, OCaml, C++, C,  $\text{\LaTeX}$

**Libraries/Frameworks:** PyTorch, TensorFlow, NumPy, Pandas, SKLearn, PySpark, OpenCV, Git, learning JAX

**Operating Systems:** MacOS, Linux