

Dhruv Sreenivas

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EDUCATION

Cornell University

B.S. Computer Science, Mathematics
M.S. Computer Science

GPA: 3.66/4.0

Ithaca, NY
Aug 2018 - May 2021
Aug 2021 - May 2023

PUBLICATIONS

- **Mitigating Covariate Shift in Imitation Learning via Offline Data Without Great Coverage**
Jonathan Chang, Masatoshi Uehara, **Dhruv Sreenivas**, Rahul Kidambi, Wen Sun (in submission to NeurIPS 2021)

RESEARCH EXPERIENCE

Mila - Quebec AI Institute

Research Collaborator

Montreal, QC (remote)
Apr 2021 – Present

- Doing reinforcement learning research for the LambdaZero project
- 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
 - Jointly learned rich features of states, as well as a linear reward function on said features
 - Algorithm performed considerably better than SOTA imitation learning algorithms (DRIL/SQIL) in environments with stochastic transitions/sticky actions
- **Spring 2021:** Model-based offline imitation learning
- Starting Fall 2021, will begin graduate research in Prof. Sun's lab

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

- Will be working on data analysis and ML for Boost, an AWS sellers tool
- Advised by Mike Ostman

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, audited)
- Deep Generative Models (CS 6785, audited)
- Graduate Computer Vision (CS 6670, Fall 2021)
- Advanced Machine Learning Systems (CS 6787, Fall 2021)

NOTABLE AWARDS

- AIME Qualifier (2015-2018) (8/15 on 2017 exam)
- 68th in Massachusetts Mathematical Olympiad (2014)
- AP Scholar with Honor
- National Merit Finalist
- Presidential Scholars nominee

SKILLS

Languages: Python, Java, OCaml, C++, C, LaTeX

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

Operating Systems: MacOS, Linux