NEEV PARIKH

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PUBLICATIONS

Workshop Papers

- Merlin, Max et al. (2020). "Locally Observable Markov Decision Process". In: *International Conference on Robotics and Automation*. *Workshop on Perception, Action, Learning*.

EXPERIENCE

Research Assistant

Intelligent Robot Lab

Jun 2020 – Present | Providence, RI

- Working on Reinforcement Learning/Robotics research, advised by **Prof. George Konidaris**. Current projects:
  - New mathematical framework (LOMDPs) for robot domains
  - Unsupervised representation learning for Atari task suite
  - Graph-based priors for improving multi-task performance

Machine Learning Intern

Myelin Foundry

Jun 2019 – Aug 2019 | Bangalore, India

- Worked to develop cutting-edge, deep-learning based pipeline to augment VFX workflows for a POC product.
- Researched and managed a company-wide, cloud-compute platform, reducing potential monthly costs by 70%.
- Helped transition MLOps to Microsoft Azure.
- Implemented DeepLabv3+ from **ECCV 2018** to develop SOTA pipelines for semantic segmentation tasks.
- Achieved 90% in business-aligned metrics with reasonable inference time.

TEACHING

Computer Vision - CSCI 1430 (TA)

Taught by Prof. James Tompkin

Jan 2020 – May 2020 | Providence, RI

- Guided 3 teams in their final projects, helping them understand recent research papers and breaking down code
- Revamped Project 5: Fundamental Matrix Estimation with RANSAC

Introduction to RL - CSCI 2951F (TA)

Taught by Prof. Michael Littman

Sep 2019 – Dec 2019 | Providence, RI

- Fixed bugs and improved visualizations in (david-abel/simple_rl)
- Guided 3 teams in replicating papers for the **NeurIPS 2019** Reproducibility Challenge

EDUCATION

B.Sc. in Computer Science

Brown University

Aug 2018 – May 2022

GPA: 3.9

Advised by: **Prof. Michael Littman**

COURSES

Graduate Courses

Reintegrating AI | Prescriptive Analytics | Advanced Research Seminar | Intro to RL (IS)

Undergraduate Courses

Distributed Systems | Computer Vision | Accelerated Intro CS | Intro to Systems | Linear Algebra | Convex Optimization | Probability & Statistics | Microeconomics | Honors Multivariable Calculus

PROJECTS

Onager

Lightweight hyperparameter tuning and experiment management, with interfaces to Slurm and Gridengine clusters

camall3n/onager

AWARDS

2nd place – Brown Datathon

Developed a U-Net style CNN model to perform neuron cell segmentation on fruit fly and mouse brains.

rgreenblatt/brown-datathon

Stripe Sponser Prize – HackPrinceton

Developed a gun violence awareness tool integrating live data visualization and machine learning predictions.

neevparikh/hack-princeton-brown