

NEEV PARIKH

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EXPERIENCE

Research Assistant

Intelligent Robot Lab

📅 Jun 2020 – Present

📍 Providence, RI

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

Machine Learning Intern

Myelin Foundry

📅 Jun 2019 – Aug 2019

📍 Bangalore, India

- Developed a cutting-edge, deep-learning based pipeline in Pytorch and Tensorflow 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.

Software Engineering Intern

Scripbox

📅 Jul 2018 – Aug 2018

📍 Bangalore, India

- Developed integrated data visualization tool in Typescript with ReactJS.
- Researched RFM analysis to gather business insights using Python.

Teaching Assistant

Brown University

📅 Sep 2019 – May 2020

📍 Providence, RI

- CSCI 1430 - Computer Vision (Prof. James Tompkin)
- CSCI 2951F - Introduction to RL (Prof. Michael Littman)

PUBLICATIONS

*equal contribution

- N. Parikh*, Z. Horvitz*, N. Srinivasan*, A. Shah, and G. Konidaris (Oct. 2020). "Graph Embedding Priors for Multi-task Deep Reinforcement Learning". In: *NeurIPS 2020. KR2ML Workshop*.
- C. Allen, N. Parikh, and G. Konidaris (Oct. 2020). "Learning Markov State Abstractions for Deep Reinforcement Learning". In: *NeurIPS 2020. Workshop on Deep Reinforcement Learning*.
- K. Asadi, N. Parikh, R. Parr, G. Konidaris, and M. Littman (Sept. 2020). "Deep Radial-Basis Value Functions for Continuous Control". In: *35th AAAI Conference on Artificial Intelligence 2021*.
- M. Merlin, N. Parikh, E. Rosen, and G. Konidaris (May 2020). "Locally Observable Markov Decision Process". In: *International Conference on Robotics and Automation. Workshop on Perception, Action, Learning*.

EDUCATION

B.Sc. in Computer Science

Brown University

📅 Aug 2018 – May 2022

🎓 GPA: 3.9

Advised by: **Prof. Michael Littman**

Graduate Courses

ML with Limited Labeled Data

Reintegrating AI

Prescriptive Analytics

ML Theory 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 Calc.

Algorithms

PROJECTS

Onager

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

🐙 camall3n/onager

SKILLS

Python

Golang

C

Tensorflow

Pytorch

Numpy

Machine Learning

Slurm

Gridengine

AWS

Azure

Google Cloud

Docker

Git

Haskell

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