

# NEEV PARIKH

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🐙 github.com/neevparikh



## 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

- K. Asadi, N. Parikh, R. Parr, G. Konidaris, and M. Littman (Sept. 2020). “Deep Radial-Basis Value Functions for Continuous Control”. In: *Under review*.
- N. Parikh\*, Z. Horvitz\*, N. Srinivasan\*, A. Shah, and G. Konidaris (Oct. 2020). “Graph Embedding Priors for Multi-task Deep Reinforcement Learning”. In: *Under review*.
- 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*.
- 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

### 2<sup>nd</sup> 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