

Yajat Yadav

[Email](#) | [Personal Website](#) | [Google Scholar](#) | [LinkedIn](#) | [GitHub](#)

EDUCATION

The University of Texas at Austin

Austin, TX

Ph.D. in Computer Science

Aug 2026 – Expected May 3031

- Incoming Ph.D. Student studying reinforcement learning algorithms, advised by Prof. Amy Zhang and Prof. Peter Stone
- NSF GRFP Fellowship, UT Computer Science Chair's Strategic Fellowship

University of California, Berkeley

Berkeley, CA

Bachelor of Science in Electrical Engineering and Computer Sciences; GPA: 4.0/4.0

Aug 2022 – May 2026

- Selected Coursework (**A+ in bold**, Grad classes underlined): Computer Vision, Learning Theory, Convex Optimization, Deep RL, Machine Learning, Optimization Methods, Probability and Random Processes, Abstract Algebra, Abstract Linear Algebra, Computational Photography, Combinatorial Algorithms, Signal Processing, Controls, Operating Systems, Computer Architecture, Discrete Math, Multivariable Calculus
- Teaching Assistant for various EECS courses (Probability Theory, Discrete Math, Signal Processing, Data Structures) for 7 semesters.
- Department Relations Head @ Eta Kappa Nu (EECS Honor Society), Project Manager at ML @ Berkeley, Neurotech @ Berkeley

EXPERIENCE

Robotic AI and Learning Lab, UC Berkeley

Aug 2024 – Present

Undergraduate Researcher | Advised by Prof. Sergey Levine

Berkeley, CA

- Developed generalizable finetuning technique to robustly extend robot foundation models to unseen tasks, accepted at ICLR 2026.
- Experimented with self-distillation, scaling test-time compute, and reasoning models for planning long-horizon robotics tasks.
- Currently investigating multi-task reinforcement learning approaches in robotic manipulation and control.

Amazon Web Services

May 2024 – Aug 2024

Software Development Engineer Intern

Seattle, WA

- Developed AWS IAM backend service for efficient propagation of AWS Orgs information among thousands of hosts across the globe.
- Created a highly-configurable client library & algorithm for dynamically resizing network traffic, helping reduce 84% of timeout errors.
- Conducted performance optimization & distributed load testing, ensuring clients and services were robust to millions of requests/sec.

Center for Computational Biology, UC Berkeley

Jan 2024 – Jul 2024

Undergraduate Researcher | Advised by Prof. Yun Song

Berkeley, CA

- Designed machine learning approach for choosing DNA primers for HIV genome selective amplification experiments.
- Developed multimodal deep network utilizing DNA sequence, structure, and taxonomy to predict plasmids' origins of transfer.

Borde, Inc.

May 2023 – Aug 2023

Machine Learning Engineering Intern

Sunnyvale, CA

- Implemented object detection CV models for real-time classification of various crops during machine processing (100+ unit/s).
- Coded a full-stack, websocket-based web app for streamlining the end-to-end process of labeling crop samples for sorting, configuring model training, and deploying/monitoring models at edge devices across 10+ farms.

PUBLICATIONS AND PREPRINTS

Robust Fine-tuning of Vision-Language-Action Robot Policies via Parameter Merging

2025

Yajat Yadav, Zhiyuan Zhou, Andrew Wagenmaker, Karl Pertsch, Sergey Levine

- International Conference on Learning Representations (ICLR) 2026.

ONG: Orthogonal Natural Gradient Descent

2025

Yajat Yadav, Patrick Mendoza, Jathin Korrapati

- Poster at NeurIPS 2025: Non-Euclidean Foundation Models and Geometric Learning Workshop, Class Project.

VROOM: Visual Reconstruction over Onboard Multiview

2025

Yajat Yadav, Varun Bharadwaj, Tanish Baranwal, Jathin Korrapati

- Preprint, Class Project.

Agent-Based Modeling for Patient-Centered Clinical Decision Support in Neuro-oncology

2024

Eduardo Rodriguez Almaraz, Brenda Miao, Yajat Yadav, et al.

- Supplemental Journal Article in *Neuro-Oncology*, Volume 26 Supplement 5.

HONORS & AWARDS

NSF Graduate Research Fellowship

2026

UT Computer Science Chair's Strategic Fellowship

2026

EECS Evergreen Undergraduate Research Award (2x)

2024, 2025

Dean's List, UC Berkeley

2022 - 2024

Top 8 in Nation, USA Biology Olympiad National Finals

2020

TECHNICAL SKILLS

Languages: Python, Java, C++, C, Rust, Ruby, TypeScript, MATLAB, R, HTML/CSS, Bash, SQL, RISC-V, x86

ML Frameworks: Jax/Flax, PyTorch, TensorFlow, OpenCV, SciPy, Hugging Face, Weights & Biases

Web Development: React, Express.js, Django, Spring, JUnit, Mockito, Ruby on Rails

Dev Tools: Docker, Azure, AWS (EC2, S3, Lambda, CloudWatch), GitLab, Kubernetes, PostgreSQL, Berkeley DB