

Yajat Yadav

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EDUCATION

The University of Texas at Austin <i>Ph.D. in Computer Science</i> • First-year Ph.D. student studying reinforcement learning and robot learning, advised by Prof. Amy Zhang & Prof. Peter Stone • NSF GRFP Fellowship, UT Computer Science Chair's Strategic Fellowship	Austin, TX Aug 2026 – Expected May 2031
University of California, Berkeley <i>Bachelor of Science in Electrical Engineering and Computer Sciences; GPA: 4.0/4.0</i> • Selected Coursework (A+ in bold , <u>Grad classes underlined</u>): 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	Berkeley, CA Aug 2022 – May 2026

EXPERIENCE

Robotic AI and Learning Lab, UC Berkeley <i>Undergraduate Researcher Advised by Prof. Sergey Levine</i> • 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. • Researched multi-task reinforcement learning approaches for VLA (Vision-Language-Action) model steering and adaptation.	Aug 2024 – Jun 2026 Berkeley, CA
Amazon Web Services <i>Software Development Engineer Intern</i> • 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.	May 2024 – Aug 2024 Seattle, WA
Center for Computational Biology, UC Berkeley <i>Undergraduate Researcher Advised by Prof. Yun Song</i> • 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.	Jan 2024 – Jul 2024 Berkeley, CA
Borde, Inc. <i>Machine Learning Engineering Intern</i> • 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.	May 2023 – Aug 2023 Sunnyvale, CA

PUBLICATIONS AND PREPRINTS

Robust Fine-tuning of Vision-Language-Action Robot Policies via Parameter Merging  <i>Yajat Yadav, Zhiyuan Zhou, Andrew Wagenmaker, Karl Pertsch, Sergey Levine</i> • International Conference on Learning Representations (ICLR) 2026.	2025
ONG: Orthogonal Natural Gradient Descent  <i>Yajat Yadav, Patrick Mendoza, Jathin Korrapati</i> • Poster at NeurIPS 2025: Non-Euclidean Foundation Models and Geometric Learning Workshop, Class Project.	2025
VROOM: Visual Reconstruction over Onboard Multiview  <i>Yajat Yadav, Varun Bharadwaj, Tanish Baranwal, Jathin Korrapati</i> • Preprint, Class Project.	2025
Agent-Based Modeling for Patient-Centered Clinical Decision Support in Neuro-oncology  <i>Eduardo Rodriguez Almaraz, Brenda Miao, Yajat Yadav, et al.</i> • Supplemental Journal Article in <i>Neuro-Oncology</i> , Volume 26 Supplement 5.	2024

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