Yuvan Sharma

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Education

University of California, Berkeley — Berkeley, CA
GPA: 3.91 — 2022 - 2026
BA Astrophysics, *BA* Computer Science
Relevant Coursework: Robotic Manipulation & Interaction; Probability & Random Processes; Quantum Mechanics; Efficient Algorithms & Intractable Problems; Designing Information Devices & Systems; Planetary Astrophysics

Henry M. Gunn High School — Palo Alto, CA
GPA: 4.18; Concurrent Enrollment with Foothill College (*GPA: 3.96*). — January 2021 - June 2022

Work Experience

Teaching Assistant, EECS 106A: Introduction to Robotics (UC Berkeley, CA) *Aug 2025 - Present*

- Leading discussion sections, grading assignments and exams, and providing support to students to reinforce key robotics concepts.

Robotics Software Engineer Intern at TetherIA (Santa Clara, CA) *July 2025 - Oct 2025*

- Developing and implementing deep RL algorithms for dexterous robotic manipulation.
- Engineering sim-to-real transfer pipelines using MuJoCo and IsaacSim, and refining simulator modeling and physics to enable robust real-world deployment.

Robotics Researcher at BAIR (UC Berkeley, CA) *Oct 2023 - Present*

- Working on generalizable representations for robotics as part of the Darrell Group.
- Worked with various robotic setups, including single-arm, bimanual, and humanoid robots.

AI Developer Intern at CompeteIQ (Remote) *June 2023 - Nov 2023*

- Worked on GPT integration: indexing and querying data, building graphs.

Academic Intern for CS 61A, CS 70 (UC Berkeley, CA) *Jan 2023 - Dec 2023*

- Provided assignment support to students in Labs and Office Hours.

Payload Member at Space Tech. and Rocketry (STAR) (UC Berkeley, CA) *Sept 2022 - Aug 2023*

- Worked on STAR's competition rocket for IREC (Intercollegiate Rocket Engineering Competition) 2023, focusing on camera and parachute payload CAD designs and drag force simulations for optimization.

Publications

[4] Dantong Niu*, **Yuvan Sharma***, et al. "Learning to Grasp Anything by Playing with Random Toys". arXiv:2510.12866, *Under Review.* Advisors: Shankar Sastry, Trevor Darrell, Jitendra Malik.

[3] Dantong Niu*, **Yuvan Sharma***, et al. "Pre-training Auto-regressive Robotic Models with 4D Representations". arXiv:2502.13142, *Forty-Second International Conference on Machine Learning **(ICML)** 2025.*

[2] Yida Yin*, Zekai Wang*, **Yuvan Sharma**, Dantong Niu, Trevor Darrell, Roei Herzig. "In-Context Learning Enables Robot Action Prediction in LLMs". arXiv:2410.12782, *IEEE International Conference on Robotics & Automation **(ICRA)** 2025. (Also filed as patent)*

[1] Dantong Niu*, **Yuvan Sharma***, Giscard Biamby, Jerome Quenum, Yutong Bai, Baifeng Shi, Trevor Darrell, Roei Herzig. "LLARVA: Vision-Action Instruction Tuning Enhances Robot Learning". arXiv:2406.11815, *Conference on Robot Learning **(CoRL)** 2024. (Also filed as patent)*

Projects

Goal-Conditioned Grasping for Robot Hands (April-May 2025) *Robotics Project*

Used kinematic retargeting and reinforcement learning for goal-conditioned grasping.

Gaussian Splatting for Robotic Manipulation (November-December 2024) *Robotics Project*

Used static Gaussian splatting to reconstruct 3D tabletop scenes for manipulation tasks.

3D Printed Rocket Sleeve (September 2022-April 2023) *Engineering Project*

Designed a camera sleeve to slide over the STAR rocket and record flight footage for IREC 2023.

Awards

Dean's Honor List — University of California, Berkeley
Fall 2023, Fall 2024, Spring 2025

Skills

Proficient in:	Python, Pytorch, C++, Java, ROS, MuJoCo, IsaacSim, IDL, SolidWorks
Working knowledge of:	SQL, Scheme, Blender, Web Design
Languages:	English, Hindi