

Sankalp (Sunny) Agrawal

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EDUCATION

The Ohio State University, Columbus OH.

Bachelor of Science in Electrical and Computer Engineering.

- Dean's List (all semesters), Minors: Robotics and Autonomous Systems, Physics

December 2025

GPA: 4.0/4.0

COURSEWORK

Graduate: Machine Learning, Real Time Robotics, State-Space Control, Machine Learning for Data Analysis, Autonomous Vehicles

TECHNICAL SKILLS

Programming Languages & Tools: Python, C++, MATLAB, ROS, Linux, Git, SolidWorks

Libraries: PyTorch, TensorFlow, scikit-learn, JAX, MuJoCo, IsaacGym, NumPy, SciPy, OpenCV

PUBLICATIONS

[1] **S. Agrawal***, J. Seo*, K. Nakamura, R. Tian, and A. Bajcsy, 'AnySafe: Adapting Latent Safety Filters at Runtime via Safety Constraint Parameterization in the Latent Space', *ICRA 2026 (in submission)*

[Paper](#) | [Website](#)

[2] C. Peng, Z. Zhang, S. Gong, **S. Agrawal**, K. A. Redmill, and A. Hereid, 'Reinforcement Learning with Data Bootstrapping for Dynamic Subgoal Pursuit in Humanoid Robot Navigation', *ICRA 2026 (in submission)*

[Paper](#)

RESEARCH & PROFESSIONAL EXPERIENCE

Carnegie Mellon University | [Interactive and Trustworthy Robotics Lab](#) | Advisor: [Andrea Bajcsy](#)

Undergraduate Research Fellow – Robotics Institute Summer Scholar ([RISS](#))

May 2025 – Present

- Enhanced world-model based robot safety methods by developing a new approach that uses images of potential failures to adapt to changing safety requirements, significantly improving real-world adaptability.
- Implemented reinforcement learning algorithms, conducted hardware experiments and wrote a [first-author ICRA 2026 submission](#).

University of Southern California | [Learning and Interactive Robot Autonomy Lab](#) | Advisor: [Erdem Bıyık](#)

Amazon Research Fellow – Viterbi Summer Undergraduate Research Experience ([SURE](#)) May 2024 – Aug 2025

- Investigated improving the sample-efficiency of Bayes-Adaptive Meta-Reinforcement Learning by designing, testing, and analyzing new partially informed training strategies.
- Implemented reinforcement learning algorithms from scratch, validated them through experiments, and maintained a collaborative GitHub codebase for the research team.

The Ohio State University | [Cyberbotics Lab](#) | Advisor: [Ayonga Hereid](#)

Undergraduate Research Assistant

September 2022 – Present

- Researched reinforcement learning methods for sub-goal planning for humanoid navigation and contributed on [ICRA 2026 paper submission](#).

Undergraduate Research Fellow – Summer Research Opportunities Program ([SROP](#))

May 2023 – July 2023

- Investigated mass parallel training for humanoid locomotion, dramatically decreasing training times.

Bilstein thyssenkrupp, Industrial Robotics Intern

May 2022 – August 2022

- Automated production-line processes by integrating collaborative UR 6-axis robot manipulators, applying mechatronics and robotic automation principles to improve reliability and throughput.

POSTER PRESENTATIONS

AnySafe: A Generalizable Framework for Constraint-Conditioned Latent Safety Analysis	August 2025
• Presented at the 2025 CMU RISS Research Showcase	
Using Partially Observed Belief States for Bayes-Adaptive Meta-RL	August 2024
• Presented at the 2024 USC SURE Research Showcase	
Investigating Mass Parallel Reinforcement Learning to Train Bipedal Robot Locomotion	April 2024
• Presented at the 2024 Ohio State Spring Undergraduate Research Festival (SURF)	

HONORS & AWARDS

Google Undergraduate Research Fellow at Carnegie Mellon University	Summer 2025
• Member of the Carnegie Mellon University RISS 2025 Cohort (1 of 39 Scholars).	
• Awarded scholarship from Google Robotics to conduct research on robot safety.	
Amazon Undergraduate Research Fellow at University of Southern California Viterbi	Summer 2024
• Member of the USC Viterbi SURE 2024 Cohort (1 of 38 Scholars).	
• Awarded scholarship from Amazon to conduct research on Bayes-Adaptive Meta-RL methods.	
Dean's List	All Semesters
Ohio State Maximus Merit Scholarship	May 2022
IEEE College Scholarship for 1st place at Science Olympiad Nationals	May 2021

LEADERSHIP & INVOLVEMENT

Black x Bold Magazine, Senior Photographer	August 2023 – Present
• Serve on the leadership team as Senior Photographer, contributing to magazine layout decisions and producing photography featured in five issues, including three cover photos.	
• Highlight multicultural student organizations through campus photography projects and lead outreach efforts that strengthen visibility, community engagement, and cross-cultural awareness.	
Buckeye Capture, Founder	January 2024 – Present
• Founded and lead a 10-member photography team that provides free professional media support to student organizations.	
• Partnered with more than 25 clubs to deliver high-quality branding and outreach content, strengthening campus visibility and engagement.	

TEACHING & SERVICE

ECE 5463: Introduction to Real Time Robotics Systems (Graduate), Teaching Assistant	Spring 2024
Ohio State Mathematics and Statistics Learning Center, Math Tutor	January 2023 – April 2024
• Tutored over twenty students in Linear Algebra and Differential Equations through weekly appointments.	
• Learned to effectively communicate and explain complex ideas.	