

Sankalp (Sunny) Agrawal

agrawal.268@buckeyemail.osu.edu | [agrawal-sunny.github.io](https://github.com/agrawal-sunny) | www.linkedin.com/in/sunny-agrawal-osu/

EDUCATION

The Ohio State University, Columbus OH.

December 2025

Bachelor of Science in Electrical and Computer Engineering.

GPA: 4.0/4.0

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

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
<ul style="list-style-type: none">Presented at the 2025 CMU RISS Research Showcase	
Using Partially Observed Belief States for Bayes-Adaptive Meta-RL	August 2024
<ul style="list-style-type: none">Presented at the 2024 USC SURE Research Showcase	
Investigating Mass Parallel Reinforcement Learning to Train Bipedal Robot Locomotion	April 2024
<ul style="list-style-type: none">Presented at the 2024 Ohio State Spring Undergraduate Research Festival (SURF)	

HONORS & AWARDS

Google Undergraduate Research Fellow at Carnegie Mellon University	Summer 2025
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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), <i>Teaching Assistant</i>	Spring 2024
Ohio State Mathematics and Statistics Learning Center, Math Tutor	January 2023 – April 2024
<ul style="list-style-type: none">Tutored over twenty students in Linear Algebra and Differential Equations through weekly appointments.Learned to effectively communicate and explain complex ideas.	