

# Sankalp (Sunny) Agrawal

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## RESEARCH INTERESTS

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My research interests focus on developing robotic systems that operate with minimal human intervention, driving greater autonomy and automation in everyday environments. I am particularly interested in Reinforcement Learning (RL) methods that enable robots to learn and adapt in human-like ways. My long-term goal is in creating systems that demonstrate robust adaptability and human-like decision-making with minimal reliance on external supervision.

## EDUCATION

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**The Ohio State University**, Columbus OH. Aug 2022 – Dec 2025  
*B.S. in Electrical Engineering* (Advisor: Ayonga Hereid) GPA: 4.0 / 4.0  
Minors: Robotics and Autonomous Systems, Physics

## RESEARCH & PROFESSIONAL EXPERIENCE

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**Interactive and Trustworthy Robotics Lab**, Carnegie Mellon Univ. May 2025 – Present  
*Visiting Researcher* with [Andrea Bajcsy](#)  
- Robotics Institute Summer Scholars (RISS) Program  
- World models for generalizable constraint-conditioned latent safety analysis.

**Learning & Interactive Robot Autonomy Lab**, USC May 2024 – August 2025  
*Visiting Researcher* with [Erdem Bıyık](#)  
- Amazon Summer Undergraduate Research Experience (SURE) Fellowship  
- Meta-reinforcement learning for Bayes-Adaptive RL methods.

**Cyberbotics Lab**, The Ohio State University September 2022 – Present  
*Undergraduate Research Assistant* with [Ayonga Hereid](#)  
- Reinforcement learning for humanoid robot locomotion and navigation.

**Bilstein thyssenkrupp**, Hamilton, OH May 2022 – August 2022  
*Industrial Robotics Intern*  
- Automated processes at Bilstein's shock absorber plant with Universal Robots (UR) 6-axis, robot manipulators, vision systems and network communication.

## PUBLICATIONS

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[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', *In Submission to ICRA 2026*, <https://arxiv.org/abs/2509.19555>, 2025.

[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', *In Submission to ICRA 2026*, <https://arxiv.org/abs/2506.02206>, 2025.

## TEACHING

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### **The Ohio State University**

ECE/ME 5463: Introduction to Real Time Robotics Systems

Spring 2024

### **Mathematics and Statistics Learning Center, OSU**

January 2023 – April 2024

*Math Tutor*

- Tutored other OSU students in Linear Algebra and Differential Equations.
- Learned to effectively communicate and explain complex ideas.

## CLUBS & ACTIVITIES

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### **Black x Bold Magazine, Photographer**

August 2023 – Present

- Highlighting multicultural clubs on campus through passion for photography.
- Uplifting voices and spreading awareness on campus.
- Improved website and recruitment efforts to boost outreach.

### **Buckeye Capture, Founder**

January 2024 – Present

- Offering free professional photography service to Ohio State clubs to help with branding and outreach.

## REFERENCES

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**Dr. Andrea Bajcsy**, (abajcsy@cmu.edu) Research Advisor, Carnegie Mellon University

**Dr. Erdem Biyik**, (biyik@usc.edu) Research Advisor, University of Southern California

**Dr. Ayonga Hereid**, (hereid.1@osu.edu) Research Advisor, The Ohio State University