

Sankalp (Sunny) Agrawal

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RESEARCH INTERESTS

My research interests are in creating robotic systems that seamlessly interact with humans and help them carry out everyday tasks. I am interested in Reinforcement Learning (RL) approaches for multi-task robots that can generalize across diverse settings and exploring multi-agent coordination. Additionally, I work on meta-reinforcement learning to improve robots' ability to generalize their skills across tasks, aiming to build systems that replicate human-like behaviors.

EDUCATION

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

RESEARCH EXPERIENCE

Interactive and Trustworthy Robotics Lab , Carnegie Mellon Univ.	May 2025 – Present
<i>Visiting Researcher</i> with Andrea Bajcsy	
- World models for generalizable constraint-conditioned latent safety analysis.	

Learning & Interactive Robot Autonomy Lab , USC	May 2024 – Present
<i>Visiting Researcher</i> with Erdem Bıyık	
- Meta-reinforcement learning for Bayes-Adaptive RL methods.	

Cyberbotics Lab , The Ohio State University	September 2022 – Present
<i>Undergraduate Research Assistant</i> with Ayonga Hereid	
- Reinforcement learning for humanoid robot locomotion and navigation.	

PROGRAMS & FELLOWSHIPS

Robotics Institute Summer Scholars , Carnegie Mellon University	May – August 2025
Amazon SURE Fellowship , The University of Southern California	May – August 2024
- Attended professional development seminars about research and graduate school preparation.	
Summer Research Opportunities Program (SROP) , OSU	May – July 2023
- Presented work in a symposium to other undergraduate students and faculty.	

SCHOLARLY PRESENTATIONS

- Using Partially Observed Belief States for Bayes-Adaptive Meta-RL, Poster Presentation at SURE research symposium, August 2024
- Investigating Mass Parallel Reinforcement Learning to Train Bipedal Robot Locomotion, Poster Presentation at Ohio State Spring Undergraduate Research Festival (SURF), April 2024

PROFESSIONAL EXPERIENCE

Bilstein thyssenkrupp, Hamilton OH

May – 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.

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.

TEACHING

The Ohio State University

ECE/ME 5463: Introduction to Real Time Robotics Systems

Spring 2024

CLUBS & ACTIVITIES

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

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

Anthony Liang, (anthony.liang@usc.edu) Ph.D. Mentor, University of Southern California