

William Huey

860-771-8885 | willhu003@gmail.com | <https://willhuey.com>

EDUCATION

Cornell University College of Engineering

B.S. in Computer Science

- GPA: 4.1

Class of 2025

Ithaca, NY

RESEARCH EXPERIENCE

Cornell People and Robots Teaching and Learning Lab

Research Assistant

April 2024 – Present

Ithaca, NY

- Worked under Prof. Sanjiban Choudhury on learning difficult control tasks from video demonstrations
- Proposed a novel sequence-matching algorithm for reward prediction that addresses theoretical limitations of existing methods and achieves empirical performance gains in the Mujoco Humanoid simulation environment

ETH Zurich Robotic Systems Lab

Research Intern

June 2023 – August 2023

Zurich, CH

- Worked under Prof. Marco Hutter and Prof. Don Greenberg on distilling VLMs for traversability prediction
- Demonstrated long-horizon visual obstacle avoidance in Nvidia Isaac Sim and on an ANYmal D quadruped robot

NASA

Software Verification Intern

May - August 2022

Fairmont, WV

- Designed a method that minimizes the number of necessary state transitions to achieve combinatorial test coverage in state-based systems, demonstrating significant increases in coverage of lunar mission flight control software

PROFESSIONAL EXPERIENCE

Amazon

Software Engineering Intern

June 2024 – September 2024

Seattle, WA

- Engineered a cloud-based microservice that aggregates and deduplicates software package requests from over 30,000 engineers, leading to future cost savings of over \$50 million per year

Cornell Computing and Information Science

Teaching Assistant: Visual Imaging in the Electronic Age

August - December 2023

Ithaca, NY

- Planned and delivered a lecture on representation learning to more than 40 students
- Provided individualized instruction during office hours on introductory computer graphics and vision concepts

PUBLICATIONS

Huaxiaoyue Wang*, **William Huey***, Anne Wu, Yoav Artzi, and Sanjiban Choudhury. Time your rewards: Learning Temporally Consistent Rewards from a Single Video Demonstration. In *CoRL 2024 Workshop on Whole-body Control and Bimanual Manipulation*, 2024. URL: <https://openreview.net/forum?id=gsgkiuv9BS>.

William Huey, Huaxiaoyue Wang, Anne Wu, Yoav Artzi, and Sanjiban Choudhury. Cover and Rank: Addressing the Limitations of Distribution Matching in Imitation Learning from Observation. In Preparation, *ICML 2025*.

* Indicates equal contribution

POSTER PRESENTATIONS

William Huey*, Sean Brynjolfsson*, Donald Greenberg. Distilling Vision-Language Models for Real Time Traversability Prediction. *Cornell Discover Undergraduate Research in Engineering Showcase*, 2024. URL: <https://willh003.github.io/files/dureposter.pdf>.

William Huey, William Stanton, Richard Kuhn. Practices in Combinatorial Testing Relevant to Spacecraft Software Verification. *NASA Summer Intern Symposium*, 2022.

OTHER

Awards: Rawlings Cornell Presidential Research Scholar, 2nd place at Big Red Hacks 2022, Dean's List (all semesters)

Classes: Computer Vision, Machine Learning, Robot Learning, Computer Architecture, Data Structures, Algorithms

Leadership: Cornell Outdoor Odyssey Backpacking Guide, Cornell Foot Volley Social Chair, Eagle Scout