

HERBERT E. WRIGHT

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EDUCATION

University of Pennsylvania - GRASP

N/A GPA | CIS PhD Student

Philadelphia, PA

Aug 2025 - Now

- NSF-GRFP fellowship recipient
- Advised by Michael Posa in the DAIR lab

University of Utah - Kahlert School of Computing

3.89 GPA | Honors Bachelor of Science in Computer Science, Minor in Mathematics

Salt Lake City, UT

Aug 2021 - Dec 2024

- Completed Senior thesis: “Bayesian Methods for Multi-Object Reconstruction with Hinge Point Representations”
- I took a smattering of grad-level courses covering optimization, numerical analysis, machine learning, and algorithms.

PUBLICATIONS

1. **H. Wright**, W. Zhi, M. Matak, M. Johnson-Roberson, T. Hermans. “Robust Bayesian Scene Reconstruction with Retrieval-Augmented Priors for Precise Grasping and Planning”. RA-L, 2026.
2. **H. Wright**, W. Zhi, M. Johnson-Roberson, T. Hermans. “V-PRISM: Probabilistic Mapping of Unknown Tabletop Scenes”. In *2024 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2024. (9 citations as per Google Scholar)

EXPERIENCE

University of Utah - LL4MA Lab

Undergraduate Researcher

Salt Lake City, UT

Aug 2022 - Dec 2024

- Presented my research multiple times; at ICRA workshop, IROS, remotely to a group at Oregon State University, in University of Utah Robotics Seminar, and during weekly lab meeting
- Experience using ROS, interfacing with Kinect and Realsense depth cameras, Pytorch, and others
- Led the lab reading group multiple times
- Was a reviewer for IROS 2024
- Advised by Tucker Hermans and Weiming (William) Zhi (Carnegie Mellon University)

Henry Schein One

Software Engineer

American Fork, UT

June 2024 - July 2025

- Coordinate with team members to build new features
- Research and solve production bugs in critical production software

Henry Schein One

Software Engineering Intern

American Fork, UT

May 2022 - June 2024

- Used Java, JavaScript, GitLab, Jira, Confluence, Figma, and others

University of Utah - School of Computing

Teacher's Assistant

Salt Lake City, UT

Jan 2022 - May 2022

- TA for CS 3130: Engineering Probability and Statistics
- Held office hours, led review sessions, graded assignments, and assisted students during labs

AWARDS, SCHOLARSHIPS, GRANTS, & OTHER COOL STUFF

- I am a recipient of the NSF-GRFP fellowship (awarded 2025).
- Received *Undergraduate Research Opportunity Program* stipend during my undergrad, funding two semesters of research, totaling over \$2000.
- In 6th grade, I received an award for being the 1st place Mathlete in my elementary school—probably my greatest accomplishment.
- My Erdős number is a very ordinary 5.