

# HERBERT E. WRIGHT

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## EDUCATION

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### 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*”
- Relevant Courses Completed: Software Practice II, Algorithms (Undergrad and Grad level), Deep Learning, Linear Algebra, Calculus III, Computer Vision, Machine Learning, Survey of Numerical Analysis, Computer Systems, Algorithmic Foundations of Robotics, Advanced Optimization (Grad level), Algorithms Geometry and Optimization (Grad Level), and more
- Created a conditional GAN architecture for metric learning and style transfer for deep learning final project
- Worked on a team to have a robot car localize itself, plan for a goal position, and execute the trajectory with MPC

## PUBLICATIONS

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1. **H. Wright**, W. Zhi, M. Johnson-Roberson, T. Hermans. “Robust Bayesian Scene Reconstruction by Leveraging Retrieval-Augmented Priors”. Under review for RA-L, 2024.
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. (8 citations)

## EXPERIENCE

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### 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 - Now

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

### Henry Schein One

Software Engineering Intern

American Fork, UT

May 2022 - June 2024

- Used Java, JavaScript in a corporate setting
- Learned how to develop enterprise software on a team in an agile environment
- Used tools such as 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

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- Received *Undergraduate Research Opportunity Program* stipend, funding two semesters of research
- Received the *Utah System of Education Regents Scholarship*
- 6x *College of Engineering Deans List*