

CONTACT	Georgia Institute of Technology Sacramento, California, United States	<i>E-mail:</i> ethan.villalovoz@gatech.edu <i>Links:</i> Website , LinkedIn , Google Scholar
EDUCATION	Georgia Institute of Technology <i>M.S. in Computer Science</i> , Computational Perception and Robotics	Jan 2026 – Dec 2027 GPA: 4.0/4.0
	Washington State University <i>B.S. in Computer Science</i> , Minor in Mathematics Senior Design Project: Retrieval-Augmented Generation Using Knowledge Graph and Vector Search	Aug 2021 – May 2025 GPA: 3.94/4.0
EXPERIENCE	Georgia Institute of Technology , Atlanta, Georgia, United States <i>Graduate Student Researcher</i> , Advised by Animesh Garg Robotics.	Feb 2026 – Present
	Microsoft , Redmond, Washington, United States <i>Software Engineer Intern</i> , Advised by TBA Commerce and Ecosystems.	May 2026 – Jul 2026
	Washington State University , Pullman, Washington, United States <i>Undergraduate Research Assistant</i> , Advised by Janardhan Rao (Jana) Doppa Designed and evaluated a Bayesian optimization framework for prompt-based LLM code generation, improving sample-efficient functional correctness.	Jan 2024 – May 2025
	Carnegie Mellon University , Pittsburgh, Pennsylvania, United States <i>Robotics Institute Summer Scholar</i> , Advised by Henny Admoni Designed and implemented a hierarchical reward learning framework with Bayesian inference and clarification dialogues, enabling adaptive robot behavior in human-robot interaction.	Jun 2024 – Aug 2024
	Google , Sunnyvale, California, United States <i>Software Engineering Intern (STEP)</i> , Advised by Arun Tej Chennadi , Paul Valdez Designed and implemented scalable C++ and SQL analytics pipelines with interactive dashboards, enabling efficient internal data workflows.	May 2023 – Aug 2023
	Oregon State University , Corvallis, Oregon, United States <i>NSF REU Fellow</i> , Advised by Heather Knight Designed and implemented geometric motion primitives and interactive deployment tools enabling expressive multi-robot behaviors for human-robot interaction research.	Jun 2022 – Aug 2022
AWARDS & HONORS	CS Research Mentorship Program Scholar , Google Research Accepted to a three-month program that matches students with Google mentors and peers to support their pursuit of computer science research pathways.	2023
	Generation Google Scholarship Awarded based on the strength of each candidate's commitment to diversity, equity, and inclusion, demonstrated leadership, and academic performance.	2023
	NIH MARC Scholar - National Institutes of Health (T34) NIH-funded opportunity for undergraduate students from underrepresented backgrounds to embark on a two-year scientific research program, leadership development, and graduate-school preparation.	2023 – 2025

PRE-PRINTS	[P1] An Exploratory Study of Bayesian Prompt Optimization for Test-Driven Code Generation with Large Language Models. S. Tomar, A. Deshwal, E. Villalovoz , M. Fazzini, H. Cai, J.R. Doppa. <i>arXiv</i> , 2025.	
CONFERENCE PUBLICATIONS	[C1] Social Triangles and Aggressive Lines: Multi-Robot Formations Impact Navigation and Approach. A. Bacula, E. Villalovoz , D. Flynn, A. Mehta, H. Knight. <i>International Conference on Intelligent Robots and Systems (IROS)</i> , 2023.	
TEACHING	CPT-S 315: Introduction to Data Mining <i>Undergraduate Teaching Assistant</i> , Washington State University	Spring 2025
	CPT-S 350: Design and Analysis of Algorithms <i>Undergraduate Teaching Assistant</i> , Washington State University	Fall 2024
	CPT-S 355: Programming Language Design <i>Undergraduate Teaching Assistant</i> , Washington State University	Fall 2023
	CPT-S 121: Program Design and Development C/C++ <i>Undergraduate Teaching Assistant</i> , Washington State University	Fall 2022
OUTREACH	WSU MARC & MIRA Program (Invited Talk) Invited to present to undergraduate researchers about the graduate school application process. Shared personal experiences and actionable advice for pursuing research opportunities.	2025
	WSU VCEA (College Ambassador) Represented and connected Voiland College with industry, alumni, and prospective students, sharing unique experiences and perspectives to promote the college's mission and transformative impact.	2022 – 2024
	CMU RISS RoboLaunch (Website Coordinator) An initiative to explore the world of robotics through a series of talks and interactive workshops. Responsible for updating the website to ensure accessibility and provide up-to-date information.	2024