

CONTACT	Georgia Institute of Technology Sacramento, California, United States	E-mail: ethan.villalovoz@gatech.edu Links: 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	Microsoft , Redmond, Washington, United States <i>Software Engineer Intern</i> , Advised by TBA Commerce and Ecosystems. May 2026 - Jul 2026 Carnegie Mellon University , Pittsburgh, Pennsylvania, United States <i>Robotics Institute Summer Scholar</i> , Advised by Henny Admoni Developed a hierarchical reward learning framework with Bayesian inference and interactive clarification dialogues, enhancing robot adaptability and task accuracy in human-robot collaboration research. Jun 2024 - Aug 2024 Google , Sunnyvale, California, United States <i>Software Engineering Intern (STEP)</i> , Advised by Arun Tej Chennadi , Paul Valdez Developed scalable C++ and SQL analytics pipelines and interactive dashboards that optimized internal data workflows, reduced runtime by 66%, and enhanced real-time decision-making across engineering teams. 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	
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	

AWARDS & HONORS	CS Research Mentorship Program Scholar , Google Research	2023
	Generation Google Scholarship	2023
	NIH MARC Scholar - National Institutes of Health (T34)	2023 - 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.	