

EDUCATION	<p>University of Chicago Jul 2022 - Present Doctor of Philosophy, Computer Science Specialization: Computer Science Education</p> <p>University of Arizona Aug 2018 - Dec 2021 Bachelor of Science, Computer Science Bachelor of Arts, Psychology Minor, Statistics & Data Science</p>
RESEARCH EXPERIENCE	<p>Graduate Research Assistant Jul 2022 - Present <i>UChicago CANON Lab</i></p> <ul style="list-style-type: none"> • Exploring using generative AI to provide personalized, culturally competent, and academically supportive CS learning experiences for young learners at scale with an emphasis on equity and inclusion for underrepresented populations. • Advisor: Diana Franklin <p>Programming & Research Intern Oct 2021 - May 2022 <i>Tectonicus Constructs LLC.</i></p> <ul style="list-style-type: none"> • Examined stochastic solvers to devise new methods of upscaling and operating Rhino Grasshopper, a parametric 3D modeling tool, in cloud services. <p>Research Intern Aug 2021 - Dec 2021 <i>PENN Think Tanks and Civil Society Program</i></p> <ul style="list-style-type: none"> • Studied the influence of technology on different education systems to propose change management plans for the governments, policymakers, and think tanks worldwide. • Advisor: James G. McGann <p>Undergraduate Student Researcher Sep 2020 - Dec 2021 <i>UArizona Vertically Integrated Projects Program</i></p> <ul style="list-style-type: none"> • Designed teachable agent behaviors, and developed constructive feedback systems that support embodied mathematics learning experiences for middle school students. • Advisor: Winslow Burlison <p><i>UArizona Compositional Systems Lab</i> Jan 2021 - Aug 2021</p> <ul style="list-style-type: none"> • Developed vehicle-independent API for a Python package that supports real-time CAN (Controller Area Network) data logging, analysis and visualization • Advisor: Jonathan Sprinkle
PUBLICATIONS	<p>[1] Tran, M., Killen, H., Palmer, J., Weintrop, D., & Franklin, D. (2024, March). <i>Harmonizing Scratch Encore: Scaffolding K-8 Teachers in Customizing Culturally Responsive Computing Materials</i>. In Proceedings of the 55th ACM Technical Symposium on Computer Science Education V. 1 (pp. 1335-1341).</p> <p>[2] Tran, M. (2023, August). <i>Prompt Engineering for Large Language Models to Support K-8 Computer Science Teachers in Creating Culturally Responsive Projects</i>. In Proceedings of the 2023 ACM Conference on International Computing Education Research-Volume 2 (pp. 110-112).</p> <p>[3] Bhadani, R., Bunting, M., Nice, M., Tran, N. M., Elmadani, S., Work, D., & Sprinkle, J. (2022, May). <i>Strym: A python package for real-time can data logging, analysis and visualization to work with usb-can interface</i>. In 2022 2nd Workshop on Data-Driven and Intelligent Cyber-Physical Systems for Smart Cities (DI-CPS) (pp. 14-23). IEEE.</p>

HONORS & AWARDS	UChicago Division of Physical Sciences Fellowship	2022 - 2028
	UChicago Crerar Fellowship	2022 - 2023
	UArizona Global Wildcat Award	2018 - 2022
	Lund Wolfe Computer Science Scholarship	Aug 2021
	hACCESS Best Fit Hack Winner	Aug 2021
WORK EXPERIENCE	Lab Intern <i>UArizona Healthcare Technology Innovation Lab (SensorLab)</i>	May 2021 - Oct 2021
	Electronic Test Technician <i>UArizona Elementary Experimental Particle Physics Group</i>	Nov 2019 - Jan 2021
	Web Developer and Designer <i>Arizona Student Unions</i>	Apr 2019 - Sep 2020
TEACHING EXPERIENCE	University of Chicago <i>Teaching Assistant: Inclusive Technology</i>	Jan 2024 - Mar 2024
	Our Lady of La Vang Tucson <i>Vietnamese Language Teacher</i>	Aug 2019 - May 2022
	University of Arizona <i>Teaching Assistant: Object-Oriented Programming and Design</i>	Aug 2020 - Dec 2021
	Ironwood Ridge High School <i>Mathematics Tutor: Algebra, Arithmetic, Geometry, Pre-Calculus</i>	Jan 2020 - May 2020
SELECT SERVICE	SIGCSE Technical Symposium on Computer Science Education <i>Reviewer: Poster Track</i>	2023
	UChicago Graduate Recruitment Initiative Team <i>Womens' Team Leader</i>	2022-2023
	<i>Computer Science Recruitment Cluster Representatives</i>	2023-2024
	UArizona Women in STEM <i>Mentor</i>	2019-2020