

Contact Information	anjali@cs.washington.edu	
	https://github.com/ajpal	
Education	University of Washington Seattle, WA Ph. D. in Computer Science	2022 - Present
	Brown University Providence, RI Sc. B. in Computer Science	2013 - 2017
Publications	<i>Equality Saturation Theory Exploration à la Carte</i> Anjali Pal , Brett Saiki, Ryan Tjoa, Cynthia Richey, Amy Zhu, Oliver Flatt, Max Willsey, Zachary Tatlock, Chandrakana Nandi.	OOPSLA 2023
Research Experience	University of Washington <i>Advised by Zachary Tatlock</i> POACH. A persistent model for e-graphs that enables reusing analyses and intermediate results across queries. EGGCC. A compiler for imperative programs powered by e-graphs and a novel extraction algorithm that ensures the extracted program obeys effect-ordering constraints without the use of external solvers. ENUMO. A domain-specific language for programmable theory exploration that enables rule inference in domains without decidable equality and scales well to deep rules and large domains. Sandia National Laboratories <i>Advised by John Bender</i> Contributed to formally-verified compiler for concurrent programs, implemented in Rocq. Implemented backwards-simulation proof demonstrating equivalence between concurrent semantics and single-threaded semantics.	Winter 2022 - Present Summer 2024 - Summer 2025
	Brown University <i>Advised by Shriram Krishnamurthi</i> Used Liquid Haskell refinement types to statically analyze R programs with matrix operations and surface matrix arithmetic errors as static type errors.	Spring 2016
Teaching Experience	Programming Languages , UW, Instructor Programming Languages , UW, Co-Instructor Software Design & Implementation , UW, TA Grad. Programming Languages , UW, TA First Byte of Computer Science , Brown University, TA Programming Languages , Brown University, Head TA Logic for Systems , Brown University, TA Intro. Functional Programming , Brown University, Head TA	Summer 2025 Fall 2024 Winter 2024 Winter 2023 Spring 2017 Fall 2016 Spring 2016 Fall 2015

	Intro. Object Oriented Programming , Brown University, TA	Spring 2015
	Intro. Functional Programming , Brown University, TA	Fall 2014
Invited Talks	Fast and Flexible Program Optimization with E-Graphs <i>Reed College, Department Seminar</i>	Spring 2026
	Fast and Flexible Program Optimization with E-Graphs <i>Williams College, Department Seminar</i>	Spring 2026
	Flexible Theory Exploration <i>Whitman College, Department Seminar</i>	Spring 2025
Professional Experience	Code.org , Software Engineer Full-stack developer on block programming environments for K-12 students. Led engineering and product efforts across courses reaching millions of students.	2019 - 2022
	Google , Software Engineer <i>Cloud Storage Security & Privacy</i> Implemented a FlumeJava pipeline to analyze object metadata in preparation for major metadata migration. <i>Android Maps</i> Implemented features to provide fresher data on the Maps directions screen for limited connection and low-bandwidth settings.	2017 - 2019
Service & Outreach	PNW PLSE <i>Co-Chair</i>	Spring 2026
	UW Pre-Application Mentorship Service <i>Co-Chair</i>	Fall 2024
	PNW PLSE <i>Co-Chair</i>	Spring 2025
	UW Pre-Application Mentorship Service <i>Mentor</i>	Fall 2024
	PNW PLSE <i>Co-Chair</i>	Spring 2024
	SPLASH OOPSLA 2024 <i>Artifact Evaluation Committee</i>	Winter 2024
	PNW PLSE <i>Co-Chair</i>	Spring 2023
	Rainier Scholars <i>Lecturer</i>	2018 - 2020
	Google CS Summer Institute <i>Teaching Assistant</i>	Summer 2018
	Brown University Women in CS <i>Peer Mentor</i>	2015 - 2017