

# Pi Songkuntham

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EDUCATION	<b>Princeton University, NJ, United States</b> Ph.D. Computer Science, September 2019 - ongoing
	<b>Wesleyan University, CT, United States</b> B.A. Computer Science, May 2019, <i>Phi Beta Kappa</i>
ACADEMIC EXPERIENCE	<b>Department of Computer Science, Wesleyan University</b> Research Assistant May 2017 - June 2018 <ul style="list-style-type: none"><li>Designed protocols for anti-censorship on the Internet that can authenticate across multiple user connections.</li><li>Tested the design feasibility in TLS 1.3 in UNIX/Linux environment using OpenSSL.</li><li>Wrote efficient bash scripts to collect protocol data from Alexa's top 500 websites to support and narrow down design.</li></ul> <b>Department of Computer Science, Wesleyan University</b> Research Assistant May - July 2016 <ul style="list-style-type: none"><li>Studied cost analysis and <math>\lambda</math>-calculus.</li><li>Used OCaml to develop a tool for extracting execution cost information from functional programs.</li></ul> <b>Department of Computer Science, Wesleyan University</b> Course Assistant <ul style="list-style-type: none"><li>Graded homework, held weekly office hours and lab involving debugging others' code, explaining complex concepts in the following courses.<ul style="list-style-type: none"><li><a href="#">Functional Programming</a>, Daniel Licata (Spring 2017)</li><li><a href="#">Algorithms and Complexity</a>, Daniel Licata (Fall 2018)</li><li>Information Security, Sebastian Zimmeck (Fall 2018)</li><li>Programming Language Implementation, Norman Danner (Spring 2019)</li></ul></li></ul>
PUBLICATIONS	<b>MultiFlow: Cross-Connection Decoy Routing using TLS 1.3 Session Resumption</b> Victoria Manfredi, <b>Pi Songkuntham</b> In Proc. of <i>8th USENIX Workshop on Free and Open Communications on the Internet (FOCI)</i> , 2018, 8 pages
INTERNSHIPS	<b>Google</b> Software Engineering Intern (Ph.D.) July - September 2019 <ul style="list-style-type: none"><li>Launched a <a href="#">Chrome extension</a> enabling remote debugging for Dart applications.</li><li>Improved Dart debug workflow for Google Ads, Google Assistant, and Flutter engineers both inside and outside of Google.</li><li>All contributions are public on the <a href="#">Dart GitHub repository</a>.</li></ul> <b>Google</b> Software Engineering Intern June - August 2018 <ul style="list-style-type: none"><li>Launched the full stack of quick response feature for internal Gmail using Dart, Angular, and Java.</li><li>Improved efficiency for agents of all Google products who communicate via email with Google's clients.</li></ul>

AWARDS	<b>Michael Rice Prize</b> Awarded for excellence in computer science to a senior	2019
	<b>Freeman Scholarship</b> Merit-based full-tuition scholarship	2015-2019
ACTIVITIES	<b>Oregon Programming Languages Summer School 2019</b> Received a grant from OPLSS sponsors to attend a conference on programming languages at the University of Oregon.	
	<b>Cornell, Maryland, Max Planck Pre-doctoral Research School Scholar 2018</b> Scholarship awarded by Max Planck Society to attend the summer school at MPI-SWS. Learned about emerging trends in computer science research, interacted with leading scientists and research students.	
	<b>Oracle Scholar 2018</b> Scholarship awarded by Oracle Academy to attend OurCS, research-focused workshop in computer science at Indiana University. Worked on mobile device location estimation based on RSSI of Bluetooth beacons.	
	<b>Grace Hopper Celebration Scholar 2018</b> Scholarship awarded by AnitaB.org to attend the celebration of women in computing.	
	<b>Wesleyan Women in Science Steering Committee</b> Led and participated in events that seek to promote access to resources, build supportive community for women in STEM.	
PROJECTS	<b>Distributed Hash Table</b> A Python implementation of distributed key-value datastore using a distributed hash table with a simplified version of Paxos used as the consensus algorithm.	
	<b>Reliable Data Transfer</b> Java implementations of application-level Stop-and-Wait, Go-Back-N, Selective Repeat over UDP.	
	<b>Cardinal Course</b> [ <a href="#">on GitHub</a> ] Course review site for students to post ratings and share course reviews.	
	<b>Word Challenge</b> [ <a href="#">on GitHub</a> ] Anagram game and anagram solver in pure JavaScript.	
	<b>Wasiddhi Run</b> [ <a href="#">on GitHub</a> ] Endless running game using Phaser JavaScript library.	