S H A W N

ONG

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ABOUT ME			
	I am a PhD Can research involve (formal languag interested in the	didate in the Center for Applied Math at Corne es looking at connections between particular lo es) and models of computation (automata), tho eoretical computer science, especially problem	ell University. My ogical structures ugh I am broadly s involving logic
EDUCATION			
	DOCTOR OF PHILOSOPHY Cornell University Ithaca, New York		2018-present
	 Major in Appl Minors in Mat Advised by D Expected Gra 	ied Mathematics hematics and Computer Science exter Kozen iduation May 2025	
	MASTER OF ARTS Cornell University Ithaca, New York		2018-2022
	Major in ApplA-exam topic:	ied Mathematics : "Review Systems and Probabilistic Automata"	
MASTER OF ARTS University of Pennsylvania Phil		RTS nnsylvania Philadelphia, Pennsylvania	2016-2018
	 Major in Appl Thesis topic: '	ied Mathematics "On the Complexity of Lunar Lockout"	
	BACHELOR OF University of Pe	ARTS nnsylvania Philadelphia, Pennsylvania	2014-2018
	 Majors in Mat putation Graduated wi	hematics; Computer Science; and Logic, Inform th <i>summa cum laude</i>	nation, and Com

TEACHING

	ALGORITHMIC GAME THEORY (CS 6840) Cornell University Ithaca, New York	Fall 2024	
	ALGORITHMS (CS 6820) Cornell University Ithaca, New York	Fall 2023	
	CRYPTOGRAPHY (CS 4830/5830) Cornell University Ithaca, New York	Spring 2023	
	MULTIVARIABLE CALCULUS FOR ENGINEERS (MATH 1920) Cornell University Ithaca, New York	Fall 2022	
	• Head TA		
	INTROUCTION TO PYTHON (CS 1110)	Fall 2018-Spring	
	Cornell University Ithaca, New York	2017, Spring 2022	
	CALCULUS FOR ENGINEERS (MATH 1910) Cornell University Ithaca, New York	Fall 2021	
	DECISION THEORY (ECON 6760/CS 5846) Cornell University Ithaca, New York	Spring 2021	
	REASONING ABOUT UNCERTAINTY (CS 6766) Cornell University Ithaca, New York	Fall 2019	
	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (CIS 160)	Spring 2016 - Spring 2018	
	University of Pennsylvania Philadelphia, Pennsylvania		
	CHEMISTRY	Fall 2013 - Spring 2014	
	Douglas County High School Castle Rock, Colorado		
EXPERIENCE			
	SOFTWARE ENGINEERING INTERN Dish Network Littleton, Colorado	2017	
	• Reworked menu search features, moving from C to SQL for cloud storage		
	SOFTWARE ENGINEERING INTERN Echostar Corporation Englewood, Colorado	2014	
	 Developed UI for set-top boxes 		
ACTIVITIES			
	 Awards Cornell CS Teaching Award, Spring 20 Max Mintz Undergraduate TA Hall of I Phi Beta Kappa, 2018 	022 Fame, 2018	

• Dean's List, Fall 2015 - Spring 2018

	Programs	 Academic Excellence Workshops content liason SIAM student member Cornell Mathematics Teaching Seminar Research Peer Advisor, Penn CURF 		
PUBLICA- TIONS				
	Articles	 S. Ong, S. Ma and D. Kozen (2024a). "Equivalences bilistic Multiset Automata". In: <i>In Progress</i>. S. Ong, S. Ma and D. Kozen (2024b). "Probability ar terminism with Multiset Semantics". In: <i>Submittee</i> 	for Proba- nd Nonde- 1.	
TALKS				
	REVIEW SYST Ithaca, New Yo PROMOTING	EMS AND PROBABILISTIC AUTOMATA	2022 2022	
	Ithaca, New Yo	prk		
	 with G. Nair PROBABILISTIC KLEENE ALGEBRA 202 Ithaca, New York 			
SKILLS				
	•••	PTEX, Python, Java, Microsoft Office, Gradescope		
		C, MATLAB, SQL, Qualtrics		
	$\bullet \circ \circ$	Javascript, Coq, OCaml, Assembly		
	Languages	• English (native)		

- Mandarin (basic)
- German (basic)