Contact Information	Computer Science Department Oberlin College 10 N. Professor St. Oberlin, OH 44074	mhogan1@oberlin.edu https://cs.oberlin.edu/~mhogan/	
Research Interests	Networked systems, with an emphasis on programmable networks		
Education	Princeton UniversityPh.D. and M.A. in Computer Science	September 2018 - May 2024	
	• Advisor: Prof. Jennifer Rexford		
	• Dissertation: Language Expressiveness Under Extreme Scarcity in Programmable Data Planes		
	• Courses: Advanced Computer Networks, Advanced Algorithm Design, Programming Languages, Network Verification, Theoretical Machine Learning, Wireless Networks		
	Saint Louis University B.S. in Computer Science 	August 2013 - May 2017	
	• Minors in Mathematics, Business Administration		
	• 3.93/4.00 cumulative GPA, summa cum laude		
Professional Experience	Oberlin College Computer Science Department Assistant Professor	July 2024 - current	
	Microsoft Research Research Intern, Azure for Operators Mentors: Sharad Agarwal, Ryan Beckett, Rachee Singh	May 2022 - July 2022	
	Saint Louis University Research Assistant Supervisor: Flavio Esposito	February 2018 - August 2018	
	RedCard Systems Associate Software Developer	June 2017 - February 2018	
Publications	Efficient Multi-WAN Transport for 5G with OTTER Mary Hogan, Gerry Wan, Yiming Qiu, Sharad Agarwal, Ryan Beckett, Rachee Singh, Paramvir Bahl. The Twenty-Second USENIX Symposium on Networked Systems Design and Implementation (NSDI 2025), to appear.		
	Automated Optimization of Parameterized Data-Plane Programs with Parasol Mary Hogan, Devon Loehr, John Sonchack, Shir Landau Feibish, Jennifer Rexford, David Walker. <i>IEEE/ACM Transactions on Networking (ToN)</i> , November 2024.		
	Modular Switch Programming Under Resource Constraints Mary Hogan, Shir Landau Feibish, Mina Tahmasbi Arashloo, Jennifer Rexford, David Walker. The Nineteenth USENIX Symposium on Networked Systems Design and Implementation (NSDI 2022), April 2022.		

Elastic Switch Programming with P4All

Mary Hogan, Shir Landau Feibish, Mina Tahmasbi Arashloo, Jennifer Rexford, David Walker, Rob Harrison. *The Nineteenth ACM Workshop on Hot Topics in Networks (Hotnets 2020)*, November 2020.

Music-Defined Newtorking

Mary Hogan, Flavio Esposito. The Seventeenth ACM Workshop on Hot Topics in Networks (Hotnets 2018), November 2018.

Stochastic Delay Forecasts for Edge Traffic Engineering via Bayesian Networks

Mary Hogan, Flavio Esposito. The Sixteenth IEEE International Symposium on Network Computing and Applications (NCA 2017), October 2017.

Poster: A Portfolio Theory Approach to Edge Traffic Engineering via Bayesian Networks

Mary Hogan, Flavio Esposito. Poster session at The Twenty-Third ACM International Conference on Mobile Computing and Networking (MobiCom 2017), October 2017.

TEACHING	Oberlin College	Eall 2024 Spring 2025	
Experience	CSCI 241: Systems Programming CSCI 342: Computer Networks	Fall 2024, Spring 2025 Spring 2025	
	Mercer County Community College (Adjunct Faculty)		
	COS101: Intro to Computer Science	Fall 2023	
	Princeton University (Teaching Assistant)		
	COS561: Advanced Computer Networks	Fall 2020	
	COS316: Principles of Computer System Design	Fall 2019, Spring 2022	
Professional	Program Committee Member		
SERVICE	ACM SIGCOMM Poster Session	2023,2024,2025	
	External Reviewer for Journal		
	IEEE/ACM Transactions on Networking (ToN)	2023	
Invited Talks	P4All: Enabling Parameterized Description of Data-Plane Algorithms Network Programming Initiative Annual Retreat, October 2019		
Awards and	• Princeton GradFUTURES Teaching Fellowship, 2023		
Honors			
	• Travel Grant for ACM MobiCom, Oct 2017		