

Mary Hogan

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 University • Ph.D. and M.A. in Computer Science • Advisor: Prof. Jennifer Rexford • Thesis: 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	September 2018 - May 2024
	Saint Louis University • B.S. in Computer Science • Minors in Mathematics, Business Administration • 3.93/4.00 cumulative GPA, <i>summa cum laude</i>	August 2013 - May 2017
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	Modular Switch Programming Under Resource Constraints Mary Hogan, Shir Landau Feibish, Mina Tahmasbi Arashloo, Jennifer Rexford, David Walker. <i>The Nineteenth USENIX Symposium on Networked Systems Design and Implementation (NSDI 2022)</i> , April 2022.	
	Elastic Switch Programming with P4All Mary Hogan, Shir Landau Feibish, Mina Tahmasbi Arashloo, Jennifer Rexford, David Walker, Rob Harrison. <i>The Nineteenth ACM Workshop on Hot Topics in Networks (Hotnets 2020)</i> , November 2020.	
	Music-Defined Newtorking Mary Hogan, Flavio Esposito. <i>The Seventeenth ACM Workshop on Hot Topics in Networks (Hotnets 2018)</i> , 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
EXPERIENCE

Oberlin College

CSCI 241: Systems Programming

Fall 2024

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
SERVICE

Program Committee Member

ACM SIGCOMM Poster Session

2023-2024

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
HONORS

- Princeton GradFUTURES Teaching Fellowship, 2023
- Travel Grant for ACM MobiCom, Oct 2017