Neil McGlohon

Contact Information	nmcglohon@gmail.com 405.760.8013	${ m nmcglo.com}$ github.com/nmcglohon
Education	Ph.D., Computer Science Rensselaer Polytechnic Institute, Troy, New York USA Advisor: Christopher Carothers In Progress	pprox May 2021
	M.S., Computer Science Rensselaer Polytechnic Institute, Troy, New York USA Advisor: Stacy Patterson	May 2016
	Bachelor of Science in Physics University of Oklahoma, Norman, Oklahoma USA Minor: Computer Science	May 2014
PUBLICATIONS	N. McGlohon, N. Wolfe, M. Mubarak, C. D. Carothers. <i>Fit Fly: A Case Study on Interconnect Innovation Through Parallel Simulation</i> . ACM SIGSIM Conference on Principles of Advanced Discrete Simulation (PADS), Chicago, USA. June 2019.	
	Y. Kang, X. Wang, N. McGlohon, M. Mubarak, S. Chunduri, Z. Lan. <i>Modeling and Analysis of Application Interference on Dragonfly+</i> . ACM SIGSIM Conference on Principles of Advanced Discrete Simulation (PADS), Chicago, USA. June 2019.	
	M. Mubarak, N. McGlohon, M. Musleh, E. Borch, R. B. Ross, R. Huggahalli, S. Chunduri, S. Parker, C. D. Carothers, K. Kumaran. <i>Evaluating Quality of Service Traffic Classes on the Megafly Network.</i> ISC High Performance (ISC), Frankfurt, Germany. June 2019.	
	M. Plagge, C. D. Carothers, E. Gonsiorowski, N. McGlohon. <i>NeMo: A Massively Parallel Discrete-</i> <i>Event Simulation Model for Neuromorphic Architectures.</i> ACM Transactions on Modeling and Computer Simulation (TOMACS), September 2018.	
	M. Plagge, N. McGlohon, C. Ross, C. D. Carothers. Simulation and Visualization of Custom Neuromorphic Hardware using NeMo. Neuromorphic Computing Symposium on Architectures, Models, and Applications, Oak Ridge National Laboratory, USA. July 2017.	
	N. McGlohon, S. Patterson. Distributed Semi-Stochastic Optimization with Quantization Refine- ment. American Control Conference, Boston, USA. July 2016.	
	S. Patterson, N. McGlohon, K. Dyagilev. Optimal k-Leader Selection for Coherence and Conver- gence Rate in One-Dimensional Networks. IEEE Transactions on Control of Network Systems. January 2016.	
	S. Patterson, N. McGlohon, K. Dyagilev. <i>Efficient, Optimal k-Leader Selection for Coherent, One-Dimensional Formations</i> . European Control Conference, Linz, Austria. July 2015.	
Talks	N. Jain, N. McGlohon. CODES-Tracer Tutorial: Enabling HPC Design Space Exploration via Discrete-Event Simulation. HOT-Interconnects, San Jose, USA. August 2019.	
	N. McGlohon, M. Mubarak. Introducing the Dragonfly Plus Interconnection Model to CODES. Summer of CODES Workshop, Argonne National Laboratory, Lemont, USA. July 2018.	
Peer Reviewing Experience	ACM SIGSIM Conference on Principles of Advanced Discrete Simulation 2019 (PADS'19)	
	IEEE Transactions on Parallel and Distributed Systems (TPDS)	

Employment	Cisco Meraki, San Francisco, California USA		
EXPERIENCE	Software Engineering Intern	May - August 2017	
	Research and development of a lockless, thread-safe HashTable using Read-Copy-Update (RCU) techniques. Submitted to open-source repository for the Software Defined Router: Click.		
ACADEMIC	Rensselaer Polytechnic Institute, Troy, New York USA	Δ	
Experience	Graduate Research Assistant	August 2014 - Present	
	M.S. and ongoing Ph.D. research, graduate level coursework and projects. Primary area of re- search: High-Performance/Parallel Computing. Other areas of interest: parallel and distributed systems, cloud computing, machine learning, neuromorphic computing and simulation. Maintainer of CODES interconnection network simulator and contributor to ROSS parallel dis- crete event simulation (PDES) framework.		
	Teaching Assistant: Computer Science I	August - December 2014	
	Acted as support to professor during course. Worked in group of eight teaching assistants. Duties included facilitating two lab discussion sections a week, hosting office hours, grading homework and exams, and monitoring/responding to question on the course online forum.		
	University of Oklahoma, Norman, Oklahoma USA		
	Undergraduate Research Assistant	May 2012 - May 2014	
	Continued REU research, performing a closer inspection of electrical transport properties of an-		

Continued REU research, performing a closer inspection of electrical transport properties of antimony measured at cryogenic temperatures. Worked on developing and refining a method for measuring differential conductance of a material – allowing for a greater understanding of the interface between a topological insulator and a superconductor. Advisor: Dr. Sheena Murphy.

National Science Foundation REU

May - August 2012, 2013

Participated in condensed matter research and analysis under an NSF Materials Research Science and Engineering Center (MRSEC) grant from advisor: Dr. Sheena Murphy.