

Benjamin Michalowicz

PhD Student, The Ohio State University

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⌚ Columbus, Ohio, USA

Education

PhD, Computer Science and Engineering, The Ohio State University, Columbus, OH 08/21 - Present

Advisor: Dr. Dhabaleswar K. (DK) Panda

Research Interests: Network-based Computing for HPC, Parallel Programming Models, Parallel and Heterogeneous Architecture, Quantum Computing

MS, Computer Science (5-year BS/MS Program), Stony Brook University, Stony Brook, NY 08/19 - 05/21

Relevant Coursework: Principles of Programming Languages, System Security, Data Science Fundamentals, Analysis of Algorithms, Quantum Computing and Applications, Fundamentals of Computer Networks, Computational Geometry

Advisor: Dr. Barbara Chapman

Activities: SBUHacks Organizing Committee, Marching Band, Research

BS, Computer Science, Stony Brook University, Stony Brook, NY 08/16 - 05/20

Relevant Coursework: Principles of Programming Languages, Systems Fundamentals I/II, Operating Systems, Principles of Database Systems, Advanced Systems Programming in Unix/C, Algorithms, Calculus I-III, Linear Algebra, Theory of Computation

Activities: Marching Band, Research, SBCS, SBLive, TKD @ SBU

Experience

Research Assistant, The Ohio State University, Columbus, OH 05/2021–
Present

High-Performance Computing research in Dr. DK Panda's **Network-Based Computing Laboratory**. Focuses: Further understanding low-level transfer methods – the Open Fabrics Interface, IB-Verbs, and offloading communication to other hardware such as SmartNICs/DPUs; further exploring the intersection of security and HPC.

Research Intern, Los Alamos National Lab
Remote/Los Alamos, NM 05/2025–
08/2025

Research in Parallel Programming models under Drs. Stephen and Wendy Poole. My project involved designing efficient encryption methods for one-sided communication in the OpenSHMEM framework.

Research Intern, Los Alamos National Lab
Remote/Los Alamos, NM 05/2023–
08/2023

Research in Edge Devices and SmartNICs under the direction of Dr. Stephen Poole. Emphasis on optimizing both communication and computational offload to these devices for traditional HPC and ML/DL workloads.

Teaching Assistant, The Ohio State University, Columbus, OH 08/2021–
12/2021
Grader for CSE 4471: Information Security.

Percussion Teacher/Drumline Instructor
Park Ridge, NJ 05/2021–
08/2021

Working with the Park Ridge Jr./Sr. High School Marching Band's drumline on their 2021-22 halftime show: wrote drumline parts, held weekly rehearsals, and taught marching fundamentals. Also taught drum lessons to beginner, intermediate, and advanced players, in rudiments and their applications to the drum set, drumming dexterity, and advanced techniques

Social Media Manager, SBUHacks Organizing Committee, Stony Brook, NY 03/2020–
08/2021

Kept social media accounts up to date (Instagram, Twitter, Facebook, etc.) and otherwise helping organize the SBUHacks hackathon for the 2020 MLH season; helped successfully run Stony Brook's first-ever, student-run, virtual hackathon.

Research Assistant, Stony Brook University, Stony Brook, NY 08/2020–
05/2021

High-Performance Computing research in Dr. Barbara Chapman's [Exascallab](#), focusing on testing and benchmarking new HPC clusters and architecture. Ran acceptance tests and helped debug the configuration of the new Ookami cluster. Used code profilers to obtain exact behavior of performance across different HPC processor architectures. Studied/currently studying the effects of compiler toolchains and OpenMP on different applications on the A64FX processor

Teaching Assistant, Stony Brook University, 08/2020–
Stony Brook, NY 05/2021

Fall 2020: Held weekly office hours, led weekly recitations, and helped students understand material in Stony Brook University's [CSE 216](#) course (Programming Abstractions). Designed recitation questions and collaborated with the course lecturer. Helped grade exams homework assignments, and led exam reviews outside of class. Kept in contact with students to answer conceptual and assignment questions.

Spring 2021: Held weekly office hours and collaborated on designing homework test cases and exam questions with the professor and fellow TAs for CSE 320: Systems Fundamentals II.

Software Technical Intern, BAE Systems, 05/2019–
Totowa, NJ 08/2019

Worked with full-time employees to re-design a code generation tool from interface definition files with a backing symbol table in C#. Allowed for optimization and easier redesign for larger files. Created a Common Language Runtime Environment for generated objects to communicate via C# and C++. Worked with fellow interns to redesign the mentor/mentee program for incoming interns and YearOne employees.

Undergraduate Teaching Assistant, Stony Brook University, 01/2019–
Stony Brook, NY 12/2019

Held weekly office hours, led weekly recitations, and helped students understand material in Stony Brook University's [CSE 216](#) course (Programming Abstractions).

Undergraduate Research Assistant, Stony Brook University, 05/2018–
Stony Brook, NY 05/2019

Worked with PhD students in the [COMPAS lab](#) on projects focusing on microarchitecture and cloud infrastructure. Specifically, I primarily used C and C++ for microarchitectural components (see [Projects](#) below), and JavaScript for verifying cloud benchmarks.

SOSB Summer Recruitment Staff, Stony Brook University, 04/2018–
Stony Brook, NY 08/2018

Aided in recruitment for the 2018-2019 Season. Assisted in planning for band camp, football games, and half-time shows for fall 2018. Helped organize funds, set up equipment to be ordered, cleaned instruments, and encouraged incoming undergraduate students to join The Spirit Of Stony Brook.

Master @ Master Yoo's Summit Martial Arts, 06/2012–
Park Ridge, NJ 08/2017

Led classes of all ranked levels, from beginner to 2nd degree black belt; taught sparring, blocking/striking techniques, self-defense, and weapon techniques while keeping a safe environment for students.

Projects

Offloading OneSided Communication 02/2023–
Columbus, OH Present

Developing an API to handle efficient offloading of one-sided communication to SmartNICs such as NVIDIA's BlueField DPDUs. This can be placed both within MPI and PGAS libraries for seamless integration. See [1] for more details.

DPU-Bench 01/2023–
Columbus, OH Present

Developing and enhancing a microbenchmark suite to measure the offload efficiency of SmartNICs such as NVIDIA's BlueField DPUs. The goal is to enable this to work on any scale-up/out parallel programming model such as MPI and SHMEM. See [2] for more details.

Ookami/A64FX Research: Studying the FLASH code 03/2021–
Stony Brook, NY 07/2021

Collaborated with astrophysicists at the [Institute for Advanced Computational Science](#) studying [FLASH](#): a multi-scale/multi-physics application written in Fortran. Analyzed memory constraints of FLASH through experiments revolving around 2D and 3D simulations.

Ookami/A64FX Research: Behavior analysis of the A64FX through OpenMP & MPI Stony Brook, NY	08/2020– 05/2021
Tasked with helping run acceptance tests on the Ookami Cluster at Stony Brook University just after it had finished being installed, and repeated similar experiments on the Fugaku Supercomputer , analyzing OpenMP and MPI libraries and their behavior as well as examine several compiler toolchains and their abilities to optimize runtime, performance, and general efficiency of applications.	
Chor-DNS: Implementation for Chord-based DNS Resolution Data Management, Integration Stony Brook, NY	10/2020– 12/2020
Course Project: Implemented the Chord Ring structure with Python/DistAlgo for DNS resolution and compared runtimes to queries made through Linux's <code>dig</code> and homemade DNS resolvers. Github link: https://github.com/BTMichalowicz/CSE534-ChorDNS	
Topologic: Library to Simulate DFAs Co-Developer Park Ridge, NJ	06/2020– 08/2020
Simulates DFAs and Probabilistic NFAs using context switching. Programs can start at multiple vertices, which may be run in parallel using POSIX Threads and Mutexes in C. Github project: https://github.com/mstern98/Topologic	
FeS2/SIMICS simulation research: COMPAS lab Research Project Stony Brook, NY	05/2018– 12/2019
Studied the FeS2 simulator platform and the SIMICS x86 processor simulator to model its configuration to real processors. Using C/C++, I debugged the cycle-accurate platform to enable checkpoints of benchmark applications to run for durations over one billion clock cycles.	

Service to the HPC communities

PEARC'25 PC Member, Systems/Systems Software Track	2025
SpecHPC Assistant Contributor to SPEChpc 2021	
Aided in testing and verification during the development of SPEChpc2021, under the direction of Anthony Curtis (Stony Brook University). Mr. Curtis later received a contributor award in January 2022 from SPEC.	2020-2021
SC'2021: Virtual Student Volunteer	
Helping the virtual aspect of SuperComputing 2021 run smoothly in its attempt at a hybrid conference. Checked in with session chairs, helped fellow volunteers, and ensured that online sessions would start, run, and end smoothly. Recognized as one of the top Student Volunteers.	11/2021
SCinet Volunteer, SC '22,'23,'24, '25	
Member of the Volunteer Services team. Aided in setting up and monitoring SC's massive infrastructure along with fellow students and professional staff from industry and academia. Specific Team(s): Edge/Wireless: 2022-24, Fiber: 2023-24; <i>Lead SCinet Student Volunteer for SC '25</i>	2022-2025
PC Member, Artifact Evaluation, Intl Conf. on Compiler Construction '23,'24	
Member of the Artifact Evaluation Committee for the International Conference on Compiler Construction (CC) 2023-24. Reviewed artifacts submitted by authors on compiler optimizations and strategies for usability and reproducibility.	2023-2024

Organizer, MVAPICH User Group (MUG)	2022-Present
Helped organize and prepare the Annual MVAPICH User Group meeting held in Columbus, Ohio since 2022. Responsibilities included setting up itineraries and being a designated contact and driving point in the event shuttles between lodging and the conference location were unavailable to attendees.	

Service to the OSU CSE Department

Student Representative, Graduate Admissions Committee, Ohio State University	Oct 2024 - Present
Outreach to the current and future CS Graduate Student body @ The Ohio State University. Helped organize and coordinate the Graduate Student Visitation Day (2025) for prospective MS and PhD students.	

Technologies

MPI, OpenMP, Git, Slurm, Various Compiler Toolchains (Intel, LLVM, GNU, Cray, Fujitsu, ARM), TAU, NVIDIA Nsight

Programming Languages

C, Java, Python, OCaml, C#, Fortran, MySQL, MIPS Assembly, C++, L^AT_EX

Personal Interests

Drumming, Computer Science, Martial Arts, Languages (Programming and Natural), music of all types/theory/history

Non-technical skills

Drums and assorted percussion

2007-Present

- Formal training in jazz, rock, marching, and orchestral drumming. I am also a private teacher by request and have experience teaching drums to all ages and skill levels in the aforementioned styles.
- I was the snare-line section leader for the Spirit of Stony Brook Marching Band between 2017-2020 and played in several ensembles since 2011.

4th Degree Black Belt in TaeKwonDo

As of December 2015, I hold a 4th-degree black belt (and the rank of "Master") in Tae Kwon Do.

Awards

International Symposium on Computer Architecture

06/2019

Phoenix, AZ

A fully funded stipend to ISCA 2019 and its new undergraduate workshop in Computer Architecture (uArch).

John J. Leddy Director's Award, SOSB Marching Band

05/2020

Given for displaying Academic Excellence, Musical Leadership, Creativity, and Commanding Exceptional Attention in Rehearsal and Performance.

Shirley Strum Kenney Founder's Award, SOSB Marching Band

05/2018

Given for displaying the leadership and musical qualities and skills of some of the original founding members in SOSB #1 in 2006.

Student Volunteer Recognition, SC '21 Conference

11/2021

Recognized as one of the top Student Volunteers for keeping multiple lines of communication open and ensuring virtual sessions ran smoothly.

Publications

Journal Articles

- [1] Understanding and Characterizing Communication Characteristics for Distributed Transformer Models
Quentin Anthony, Benjamin Michalowicz, Jacob Hatef, Lang Xu, Mustafa Abduljabbar, Aamir Shafi, Hari Subramoni, Dhabaleswar K. DK Panda
IEEE Micro 01 (Jan. 2025), pp. 1–7, IEEE Computer Society
DOI: [10.1109/MM.2025.3531323](https://doi.ieeecomputersociety.org/10.1109/MM.2025.3531323)
URL: <https://doi.ieeecomputersociety.org/10.1109/MM.2025.3531323>
- [2] Accelerating communication with multi-HCA aware collectives in MPI
Tu Tran, Bharath Ramesh, Benjamin Michalowicz, Mustafa Abduljabbar, Hari Subramoni, Aamir Shafi, Dhabaleswar K. Panda
Concurrency and Computation: Practice and Experience 36.1 (2024), e7879
DOI: <https://doi.org/10.1002/cpe.7879>
URL: <https://onlinelibrary.wiley.com/doi/abs/10.1002/cpe.7879>

Conferences and Workshops

- [1] OpenSHMEM MLIR: A Dialect for Compile-Time Optimization of One-Sided Communications
Michael Beebe, Benjamin Michalowicz, Andrew McNamara, Yash Kumar, Dhabaleswar K. Panda, Yong Chen, Wendy Poole, Steve Poole
Proceedings of the SC '25 Workshops of the International Conference for High Performance Computing, Networking, Storage and Analysis, 2025, Association for Computing Machinery
DOI: [10.1145/3731599.3767483](https://doi.org/10.1145/3731599.3767483)
URL: <https://doi.org/10.1145/3731599.3767483>

- [2] OpenSHMEM Performance on Bluefield-3 Data Processing Units (DPUs)
 Michael Beebe, Benjamin Michalowicz, Dhabaleswar K. Panda, Yong Chen, Wendy Poole, Steve Poole
Practice and Experience in Advanced Research Computing 2025: The Power of Collaboration, 2025, Association for Computing Machinery
 doi: [10.1145/3708035.3736109](https://doi.org/10.1145/3708035.3736109)
 URL: <https://doi.org/10.1145/3708035.3736109>
- [3] Effective and Efficient Offloading Designs for One-Sided Communication to SmartNICs
 Ben Michalowicz, Kaushik Kandadi Suresh, Hari Subramoni, Mustafa Abduljabbar, Dhabaleswar K. Panda, Steve Poole
2024 IEEE 31st International Conference on High Performance Computing, Data, and Analytics (HiPC), 2024
 doi: [10.1109/HiPC62374.2024.00012](https://doi.org/10.1109/HiPC62374.2024.00012)
- [4] Using BlueField-3 SmartNICs to Offload Vector Operations in Krylov Subspace Methods
 Kaushik Kandadi Suresh, Benjamin Michalowicz, Nick Contini, Bharath Ramesh, Mustafa Abduljabbar, Aamir Shafi, Hari Subramoni, Dhabaleswar Panda
2024 IEEE 31st International Conference on High Performance Computing, Data, and Analytics (HiPC), 2024
 doi: [10.1109/HiPC62374.2024.00029](https://doi.org/10.1109/HiPC62374.2024.00029)
- [5] Demystifying the Communication Characteristics for Distributed Transformer Models
 Quentin Anthony, Benjamin Michalowicz, Jacob Hatef, Lang Xu, Mustafa Abduljabbar, Aamir Shafi, Hari Subramoni, Dhabaleswar K. Panda
2024 IEEE Symposium on High-Performance Interconnects (HOTI), 2024
 doi: [10.1109/HOTI63208.2024.00020](https://doi.org/10.1109/HOTI63208.2024.00020)
- [6] Ookami: An A64FX Computing Resource
 A C Calder, E Siegmann, C Feldman, S Chheda, D C Smolarski, F D Swesty, A Curtis, J Dey, D Carlson, B Michalowicz, R J Harrison
Journal of Physics: Conference Series 2742.1 (Apr. 2024), p. 012019, IOP Publishing
 doi: [10.1088/1742-6596/2742/1/012019](https://doi.org/10.1088/1742-6596/2742/1/012019)
 URL: <https://dx.doi.org/10.1088/1742-6596/2742/1/012019>
- [7] PML-MPI: A Pre-Trained ML Framework for Efficient Collective Algorithm Selection in MPI
 Mingzhe Han, Goutham Kalikrishna Reddy Kuncham, Ben Michalowicz, Rahul Vaidya, Mustafa Abduljabbar, Aamir Shafi, Hari Subramoni, Dhabaleswar K. DK Panda
2024 IEEE International Parallel and Distributed Processing Symposium Workshops (IPDPSW), 2024
 doi: [10.1109/IPDPSW63119.2024.00140](https://doi.org/10.1109/IPDPSW63119.2024.00140)
- [8] Battle of the BlueFields: An In-Depth Comparison of the BlueField-2 and BlueField-3 SmartNICs
 Benjamin Michalowicz, Kaushik Kandadi Suresh, Hari Subramoni, Dhabaleswar K. DK Panda, Steve Poole
2023 IEEE Symposium on High-Performance Interconnects (HOTI), 2023
 doi: [10.1109/HOTI59126.2023.00020](https://doi.org/10.1109/HOTI59126.2023.00020)
- [9] DPU-Bench: A Micro-Benchmark Suite to Measure Offload Efficiency Of SmartNICs
 Benjamin Michalowicz, Kaushik Kandadi Suresh, Hari Subramoni, Dhabaleswar Panda, Steve Poole
Practice and Experience in Advanced Research Computing, 2023, Association for Computing Machinery
 doi: [10.1145/3569951.3593595](https://doi.org/10.1145/3569951.3593595)
 URL: <https://doi.org/10.1145/3569951.3593595>
- [10] Enabling Reconfigurable HPC through MPI-Based Inter-FPGA Communication
 Nicholas Contini, Bharath Ramesh, Kaushik Kandadi Suresh, Tu Tran, Ben Michalowicz, Mustafa Abduljabbar, Hari Subramoni, Dhabaleswar Panda
Proceedings of the 37th International Conference on Supercomputing, 2023, Association for Computing Machinery
 doi: [10.1145/3577193.3593720](https://doi.org/10.1145/3577193.3593720)
- [11] In-Depth Evaluation of a Lower-Level Direct-Verbs API on InfiniBand-based Clusters: Early Experiences
 Benjamin Michalowicz, Kaushik Kandadi Suresh, Bharath Ramesh, Aamir Shafi, Hari Subramoni, Mustafa Abduljabbar, Dhabaleswar Panda
2023 IEEE International Parallel and Distributed Processing Symposium Workshops (IPDPSW), 2023
 doi: [10.1109/IPDPSW59300.2023.00065](https://doi.org/10.1109/IPDPSW59300.2023.00065)
- [12] A Novel Framework for Efficient Offloading of Communication Operations to Bluefield SmartNICs
 Kaushik Kandadi Suresh, Benjamin Michalowicz, Bharath Ramesh, Nick Contini, Jinghan Yao, Shulei Xu, Aamir Shafi, Hari Subramoni, Dhabaleswar Panda
2023 IEEE International Parallel and Distributed Processing Symposium (IPDPS), 2023
 doi: [10.1109/IPDPS54959.2023.00022](https://doi.org/10.1109/IPDPS54959.2023.00022)
- [13] Efficient Personalized and Non-Personalized Alltoall Communication for Modern Multi-HCA GPU-Based Clusters

Kaushik Kandadi Suresh, Akshay Paniraja Guptha, Benjamin Michalowicz, Bharath Ramesh, Mustafa Abduljabbar, Aamir Shafi, Hari Subramoni, Dhabaleswar Panda

2022 IEEE 29th International Conference on High Performance Computing, Data, and Analytics (HiPC), 2022

doi: [10.1109/HIPC56025.2022.00025](https://doi.org/10.1109/HIPC56025.2022.00025)

- [14] Designing Hierarchical Multi-HCA Aware Allgather in MPI
Tu Tran, Benjamin Michalowicz, Bharath Ramesh, Hari Subramoni, Aamir Shafi, Dhabaleswar K. Panda
Workshop Proceedings of the 51st International Conference on Parallel Processing, 2023, Association for Computing Machinery
doi: [10.1145/3547276.3548524](https://doi.org/10.1145/3547276.3548524)
URL: <https://doi.org/10.1145/3547276.3548524>
- [15] Experiences with Porting the FLASH Code to Ookami, an HPE Apollo 80 A64FX Platform
Catherine Feldman, Benjamin Michalowicz, Eva Siegmann, Tony Curtis, Alan Calder, Robert Harrison, HPCAsia '22 Workshops (2022), pp. 72–77, Association for Computing Machinery
doi: [10.1145/3503470.3503478](https://doi.org/10.1145/3503470.3503478)
URL: <https://doi.org/10.1145/3503470.3503478>
- [16] Comparing OpenMP Implementations with Applications Across A64FX Platforms
Benjamin Michalowicz, Eric Raut, Yan Kang, Tony Curtis, Barbara Chapman, Dossay Oryspayev
OpenMP: Enabling Massive Node-Level Parallelism, 2021, Springer International Publishing
ISBN: 978-3-030-85262-7
- [17] Comparing the behavior of OpenMP Implementations with various Applications on two different Fujitsu A64FX platforms
Benjamin Michalowicz, Eric Raut, Yan Kang, Tony Curtis, Barbara Chapman, Dossay Oryspayev, PEARC '21 (2021), Association for Computing Machinery
doi: [10.1145/3437359.3465592](https://doi.org/10.1145/3437359.3465592)
URL: <https://doi.org/10.1145/3437359.3465592>
- [18] Ookami: Deployment and Initial Experiences
Andrew Burford, Alan Calder, David Carlson, Barbara Chapman, Firat Coskun, Tony Curtis, Catherine Feldman, Robert Harrison, Yan Kang, Benjamin Michalowicz, Eric Raut, Eva Siegmann, Daniel Wood, Robert DeLeon, Mathew Jones, Nikolay Simakov, Joseph White, Dossay Oryspayev, PEARC '21 (2021), Association for Computing Machinery
doi: [10.1145/3437359.3465578](https://doi.org/10.1145/3437359.3465578)
URL: <https://doi.org/10.1145/3437359.3465578>

Invited Talks

- [1] Benjamin Michalowicz, *MVAPICH User Group (MUG) 2025 Conference* "Using BlueField-3 SmartNICs to Offload Vector Operations in Krylov Subspace Methods" (Lightning Talk)
August 20, 2025
- [2] Benjamin Michalowicz, *OpenSHMEM: Version 1.6 and Next Frontiers BoF at SC'24* "Offloading One-Sided Communication to NVIDIA BlueField DPUs: How and the Associated Benefits?" (Lightning Talk)
November 21, 2024
- [3] Benjamin Michalowicz, *MVAPICH User Group (MUG) 2024 Conference* "Demystifying the Communication Characteristics for Distributed Transformer Models (Lightning Talk)"
August 19, 2024
- [4] Benjamin Michalowicz, *MVAPICH User Group (MUG) 2023 Conference* "DPUBench: A New Microbenchmark Suite to Measure the Offload Efficiency of SmartNICs (Lightning Talk)
August 21, 2023
- [5] Benjamin Michalowicz *OpenSNAPI Consortium*. "DPUBench: A New Microbenchmark Suite to Measure Offload Efficiency of SmartNICs"
June 12, 2023
- [6] Catherine Feldman, Benjamin Michalowicz, Alan Calder. *ACM Frontiers in Computing*. "Lessons Learned: An In-Depth Look at Running FLASH on Ookami"
May 11-13, 2021
- [7] Benjamin Michalowicz, Yan Kang. *IACS Student Seminar*. "Studying OpenMP Behavior on the A64FX Processor"
Apr. 1, 2021

Posters

- [1] Benjamin Michalowicz, Kaushik Kandadi Suresh, Hari Subramoni, Dhabaleswar K. Panda, Steve Poole; *ISC HIGH PERFORMANCE 2025.* "Use of BlueField-SmartNICs in Offloading One-Sided Communication Primitives"
June 10-13, 2025
- [2] Benjamin Michalowicz, Michael Beebe, Steve Poole, Wendy Poole; *Chesapeake Large Scale Analytics Conference.* "Offloading 'Everything' to DPUs: Why, How, and Potential Benefits?"
November 4 - 8, 2024
- [3] Benjamin Michalowicz, Kaushik Kandadi Suresh, Hari Subramoni, DK Panda, and Stephen Poole; *MUG 2024.* "DPU-Bench: A New Microbenchmark Suite to Measure the Offload Efficiency of SmartNICs"
August 19-21, 2024
- [4] Benjamin Michalowicz, Kaushik Kandadi Suresh, Hari Subramoni, DK Panda, and Stephen Poole; *NVIDIA GTC.* "DPU-Bench: A New Microbenchmark Suite to Measure the Offload Efficiency of SmartNICs"
March 17-21, 2024
- [5] Benjamin Michalowicz, Andrew McNamara, Daniel Y. Hwang, and Jose Ortiz; *Chesapeake Large Scale Analytics Conference.* "Fully Homomorphic Schemes For Real-World Usage"
October 30 - Nov 2, 2023

Tutorials Presented

- [1] Dhabaleswar K. Panda, Hari Subramoni, Benjamin Michalowicz; *"High-Performance and Smart Networking Technologies for HPC and AI."*
SC '24 (Atlanta, GA, USA), HPCA '25 (Las Vegas, NV, USA), SCAsia '25 (Singapore), ISCA '25 (Tokyo, Japan), IEEE Cluster '25 (Edinburgh, UK), IEEE HotI 2025 (Virtual), SC '25 (St. Louis, MO, USA), To be presented at SCA/HPCAsia 2026 (Osaka, Japan), To be presented at HPCA 2026 (Sydney, Australia)