

# Dr. Srinivas Narayana

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*Last updated April 13, 2025*

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## RESEARCH INTERESTS

Computer networks, software-defined networks, high-performance packet processing.

## EDUCATION

**Princeton University**, M.A/Ph.D. in Computer Science ..... Sep '10–May '16  
Thesis “Declarative network path queries” advised by Prof. Jennifer Rexford. GPA 3.97/4

**Indian Institute of Technology Madras**, B.Tech in Computer Science with Minor in Physics .... Aug '06–May '10  
GPA 9.66/10. Thesis “Stability of rate control protocols” advised by Prof. Gaurav Raina

## WORK EXPERIENCE

**Rutgers University**, New Brunswick, NJ ..... Sep '18–at present  
Assistant Professor, Department of Computer Science

**Massachusetts Institute of Technology**, Cambridge, MA ..... Jul '16–Jul '18  
Postdoctoral associate (advisors: Prof. Hari Balakrishnan and Prof. Mohammad Alizadeh)

**Microsoft**, Redmond, WA ..... Jul–Sep '14  
Software engineering intern, Azure network security

**Google**, Mountain View, CA ..... Jun–Dec '12  
Software engineering intern, Wide-area networking

**Princeton University**, Princeton, NJ ..... Sep '11–May '12  
Teaching assistant for Operating systems (318) and Advanced programming techniques (333)

**IBM Research**, Bangalore, India ..... Jun–Aug '09  
Research intern, Next-generation telecommunications

## AWARDS, PRIZES, AND RECOGNITION

- Distinguished paper award, Code Generation and Optimization conference (CGO), '22
- Winner of Nvidia North America DPU hackathon '21 (12 competing teams across the USA)
- Best paper award, ACM SIGCOMM '17
- Honorable mention, Microsoft Research graduate student summit on networks, mobility, and systems '16
- Runner-up, Open Networking Users Group (ONUG) hackathon '14
- Princeton Graduate Research Fellowship '10–'11
- 7th place (of  $\approx 50$ ), Regional ACM International Collegiate Programming Contest (ICPC), Kanpur '08
- Finalist, Google India Product Prodigy Contest '08
- 20th place (of  $\approx 50$ ), Regional ACM International Collegiate Programming Contest (ICPC), Amritapuri '07

## CONFERENCE PUBLICATIONS

- Rohan Gandhi and Srinivas Narayana, “KnapsackLB: Enabling Performance-Aware Layer-4 Load Balancing,” in **ACM CoNEXT (Proceedings of ACM Networking PACMNet)**, 2025.

- Qiongwen Xu, Sebastiano Miano, Xiangyu Gao, Tao Wang, Adithya Murugadass, Songyuan Zhang, Anirudh Sivaraman, Gianni Antichi, and Srinivas Narayana, “State-Compute Replication: Parallelizing High-Speed Stateful Packet Processing,” in **Usenix Symposium on Networked Systems Design and Implementation (NSDI)**, 2025.
- Matan Shachnai, Harishankar Vishwanathan, Srinivas Narayana, and Santosh Nagarakatte, “Fixing Latent Unsound Abstract Operators in the eBPF Verifier of the Linux Kernel,” in **Static Analysis Symposium (SAS)**, 2024.
- Harishankar Vishwanathan, Matan Shachnai, Srinivas Narayana, and Santosh Nagarakatte, “Verifying the verifier: eBPF range analysis verification,” in **Computer-Aided Verification (CAV)**, 2023. Also accepted for presentation at the Linux Plumbers Conference networking track in 2023..
- Xiangyu Gao, Divya Raghunathan, Ruijie Fang, Tao Wang, Xiaotong Zhu, Anirudh Sivaraman, Srinivas Narayana, and Aarti Gupta, “Optimizing compilers for packet-processing pipelines,” in **ASPLOS**, 2023.
- Prateesh Goyal, Akshay Narayan, Frank Cangialosi, Srinivas Narayana, Mohammad Alizadeh, and Hari Balakrishnan, “Elasticity detection: a building block for Internet congestion control,” in **ACM SIGCOMM**, 2022.
- Frank Cangialosi, Neil Agarwal, Venkat Arun, Junchen Jiang, Srinivas Narayana, Anand Sarwate, and Ravi Netravali, “Privid: Practical, privacy-preserving video analytics queries,” in **Usenix Symposium on Networked Systems Design and Implementation (NSDI)**, 2022.
- Harishankar Vishwanathan, Matan Shachnai, Srinivas Narayana, and Santosh Nagarakatte, “Sound, Precise, and Fast Abstract Interpretation with Tristate Numbers,” in **Symposium on Code Generation and Optimization (CGO)**, 2022. **Winner of distinguished paper award.**
- Yiming Qiu, Jiarong Xing, Kuo-Feng Hsu, Qiao Kang, Ming Liu, Srinivas Narayana, and Ang Chen, “Automated SmartNIC Offloading Insights for Network Functions,” in **ACM Symposium on Operating Systems Principles (SOSP)**, 2021.
- Qiongwen Xu, Michael Dean Wong, Tanvi Wagle, Srinivas Narayana, and Anirudh Sivaraman, “Synthesizing safe and efficient kernel extensions for packet processing,” in **ACM SIGCOMM**, 2021. Also accepted for presentation at the Linux Plumbers Conference networking track in 2021..
- Xiangyu Gao, Taegyun Kim, Michael Dean Wong, Divya Raghunathan, Aatish Kishan Varma, Pravein Govindan Kannan, Anirudh Sivaraman, Srinivas Narayana, and Aarti Gupta, “Switch Code Generation using Program Synthesis,” in **ACM SIGCOMM**, 2020.
- Akshay Narayan, Frank Cangialosi, Deepti Raghavan, Prateesh Goyal, Srinivas Narayana, Radhika Mittal, Mohammad Alizadeh, and Hari Balakrishnan, “Restructuring endpoint congestion control,” in **ACM SIGCOMM**, 2018.
- Srinivas Narayana, Anirudh Sivaraman, Vikram Nathan, Prateesh Goyal, Venkat Arun, Mohammad Alizadeh, Vimalkumar Jeyakumar, and Changhoon Kim, “Language-directed hardware design for network performance monitoring,” in **ACM SIGCOMM**, 2017. **Winner of the best paper award.**
- Vibhaalakshmi Sivaraman, Srinivas Narayana, Ori Rottenstreich, S. Muthukrishnan, and Jennifer Rexford, “Heavy-hitter detection entirely in the data plane,” in **ACM Symposium on SDN Research (SOSR)**, 2017.
- Srinivas Narayana, Mina Tashmasbi, Jennifer Rexford, and David Walker, “Compiling path queries,” in **Usenix Symposium on Networked Systems Design and Implementation (NSDI)**, 2016.
- Divjyot Sethi, Srinivas Narayana, and Sharad Malik, “Abstractions for model checking SDN controllers,” in **Formal methods in Computer-Aided Design (FMCAD)**, 2013.

## WORKSHOP PUBLICATIONS

- Xiangyu Gao, Jiaqi Gao, Karan Kumar Gangadhar, Ennan Zhai, Srinivas Narayana, and Anirudh Sivaraman, “Cross-Platform Transpilation of Packet-Processing Programs using Program Synthesis,” in **Asia Pacific Workshop on Networking (APNet)**, 2024.
- Srinivas Narayana, “Making decisions at data plane speeds,” in **ACM SIGMETRICS Workshop on Self-Driving Networks**, 2023.
- Jessica Berg, Muhammad Haseeb, Haiming Chen, Yaojia Ju, Anirudh Sivaraman, Ravi Netravali, and Srinivas Narayana, “QuEST: Fast, Expressive, and Cheap Analytics for Distributed Traces Using Cloud Storage,” in **VLDB Cloud Databases Workshop**, 2023.
- Bhavana Vannarth Shobhana, Srinivas Narayana, and Badri Nath, “Load balancers need in-band feedback control,” in **ACM Hot Topics in Networking (HotNets)**, 2022.
- Jessica Berg, Fabian Ruffy, Khanh Nguyen, Nicholas Yang, Taegyun Kim, Anirudh Sivaraman, Ravi Netravali, and Srinivas Narayana, “Snicket: Query-Driven Distributed Tracing,” in **ACM Hot Topics in Networking (HotNets)**, 2021.
- Xiangyu Gao, Taegyun Kim, Aatish Kishan Varma, Anirudh Sivaraman, Srinivas Narayana, “Autogenerating fast packet-processing code using program synthesis,” in **ACM Hot Topics in Networks (HotNets)**, 2019.
- Akshay Narayan, Frank Cangialosi, Prateesh Goyal, Srinivas Narayana, Mohammad Alizadeh, and Hari Bal-

akrishnan, “The case for moving congestion control out of the datapath,” in **ACM Hot Topics in Networks (HotNets)**, 2017.

- Srinivas Narayana, Anirudh Sivaraman, Vikram Nathan, Mohammad Alizadeh, David Walker, Jennifer Rexford, Vimalkumar Jeyakumar, and Changhoon Kim, “Hardware-software co-design for network performance measurement,” in **ACM Hot Topics in Networks (HotNets)**, 2016.
- Srinivas Narayana, Jennifer Rexford, and David Walker, “Compiling path queries in software-defined networks,” in **ACM Hot Topics in Software-Defined Networks (HotSDN)**, 2014.
- Srinivas Narayana, Joe Wenjie Jiang, Jennifer Rexford, and Mung Chiang, “Joint server selection and routing for geo-replicated services,” in **Workshop on Distributed Cloud Computing (DCC)**, 2013. **Invited paper.**

## ISSUED PATENT

- Anupam Joshi, Srinivas Narayana, and Aaditeshwar Seth, “Systems and methods for transactions on the spoken web,” US patent 8463705, granted in 2013.

## OTHER ARTICLES

- Qiongwen Xu, Songyuan Zhang, Sebastiano Miano, Anirudh Sivaraman, Gianni Antichi, and Srinivas Narayana, “Using high-throughput pipelines to parallelize stateful packet processing,” in **Usenix NSDI poster**, 2023.
- Akshay Narayan, Frank Cangialosi, Deepti Raghavan, Prateesh Goyal, Srinivas Narayana, Mohammad Alizadeh, and Hari Balakrishnan, “Restructuring endpoint congestion control,” in **Linux Network Developers (netdev) conference 0x12**, 2018.
- Srinivas Narayana, “Declarative network path queries,” in **Ph.D. thesis, Princeton University**, 2016.
- Srinivas Narayana, Joe Wenjie Jiang, Jennifer Rexford, and Mung Chiang, “To coordinate or not to coordinate? Wide-Area traffic management for data centers,” in **Technical report, Princeton University**, 2012.
- Srinivas Narayana, Joe Wenjie Jiang, Jennifer Rexford, Mung Chiang, “Distributed wide-area traffic management for cloud services,” in **ACM SIGMETRICS/Performance Extended Abstract**, 2012.

## DEMONSTRATIONS

- Vikram Nathan, Srinivas Narayana, Anirudh Sivaraman, Prateesh Goyal, Venkat Arun, Mohammad Alizadeh, Vimalkumar Jeyakumar, and Changhoon Kim, “Demonstration of the Marple System for Network Performance Monitoring,” at ACM SIGCOMM, 2017.
- Srinivas Narayana, Anirudh Sivaraman, Vikram Nathan, Mohammad Alizadeh, David Walker, Prateesh Goyal, Venkat Arun, Vimalkumar Jeyakumar, and Changhoon Kim, “Language-directed hardware design for network performance monitoring,” at P4 Workshop, 2017.
- Srinivas Narayana, “Tools for hands-on networking,” at IIT Madras, Feb 2010.

## ACCEPTED FUNDING PROPOSALS

- Verified path exploration for eBPF static analysis (eBPF foundation 2024 grant, \$50,000): Srinivas Narayana (PI) and Santosh Nagarakatte
- Formally-verified eBPF verifier in the Linux kernel (2024 NSF FMitF 2422076, \$150,000): Srinivas Narayana (PI) and Santosh Nagarakatte
- Synthesizing safe and efficient kernel extensions for packet processing (2021, Network Programming Initiative, \$25,000) as PI
- Formally Verified Sandboxing for Packet-Processing Programs (2020 NSF FMitF 2019302, \$749,356): Srinivas Narayana (PI) and Santosh Nagarakatte
- Facebook Networking and Systems Research Award (2019, unrestricted \$50,000 gift): Srinivas Narayana (PI) and Santosh Nagarakatte
- Democratizing network hardware offloads (2019 NSF CNS 1910796, \$387,990) as PI
- Rutgers University Next-Generation Edge Testbed (RU-NET) (2019 NSF CC\* 1925482, \$999,024): Barr Von Oehsen (PI), Srinivas Narayana, Rich Martin, Thu Nguyen, and Ivan Seskar

## RESEARCH PRESENTATIONS

- Formally-verified sandboxing for packet-processing programs, at FMitF PI meeting, Iowa City, Iowa, USA, Nov '24.
- Safe and efficient kernel extensions for networking, Invited guest lecture at Purdue University CS 536 (Data communication and computer networks).Nov '24

- Programming computer networks safely and efficiently, at Jane Street/HotNets'24 PC pod, Sep '24.
- Making decisions at data plane speeds, invited talk at ACM SIGMETRICS self-driving networks workshop, Jun '23.
- Invited panelist for “broadening software defined networking” at Symposium on Software-Defined Network (SOSR), '22.
- V-SPILLS eBPF working group (online/Vanderbilt), Oct '22.
- Clockwork, Palo Alto, CA, Jul '22.

#### **Leveraging kernel extensions for safe and efficient packet processing**

- COMSNETS Invited Speaker, Bengaluru, India, Jan '22.
- Rutgers University, NJ, USA, Dec '21.
- “Restructuring endpoint congestion control”, at IIT Madras, Chennai, India (Aug '19).
- “Restructuring endpoint congestion control”, at Columbia University systems seminar, NYC (Nov '18).
- “Monitoring with programmable data planes”, at NII Shonan workshop, held at Shonan village, Japan (Feb '18).
- “Elasticity detection”, at DARPA PI summit, held at Los Angeles, CA (Feb '18).

#### **Turning the network into a streaming database for better monitoring**

- Tufts University, Medford, MA, Feb '18
- Northeastern University, Boston, MA, Mar '18
- Rutgers University, New Brunswick, NJ, Mar '18
- Microsoft Research, Redmond, WA, Apr '18

#### **Marple: Fine-grained performance monitoring**

- ACM SIGCOMM, at Los Angeles, CA, Aug '17.
- Google, Mountain View, CA, May '16.
- Cisco Networks (PI summit), May '16.
- Barefoot Networks, May '16.
- P4 workshop, at Stanford, CA, May '16.
- Hot topics in networking (HotNets), at Atlanta, GA, Nov '16.
- New England Networking and Systems summit, at Boston, MA, Oct '16.

#### **Path queries: Measuring traffic over network paths**

- Tufts university (CS department colloquium), Oct '16.
- Microsoft Research graduate student summit on networks, mobility and systems, Feb '16.
- Princeton University (Ph.D. thesis defense), May '16.
- Usenix Symposium on Networked Systems Design and Implementation (NSDI), at Santa Clara, CA, Apr '16.
- Indian Institute of Technology, Madras (CS department colloquium), Jan '16.
- Indian Institute of Technology, Bombay, Dec '15.
- Indian Institute of Science, Bengaluru, Dec '15.
- Microsoft Research India, Bengaluru, Dec '15.
- University of Delaware (SIGNET department seminar series), Dec '15.
- AT&T Research, Sep '15.
- Hot topics in Software-Defined Networks (HotSDN), at Chicago, IL, Aug '14.

#### **Measuring the impact of network reconfiguration**

- Google, Mountain View, CA, Sep '12.
- Princeton University (EDGE lab meeting), Feb '13.

#### **Wide-area traffic engineering for large online service providers**

- Workshop on Distributed Cloud Computing (DCC), at Dresden, Germany, Dec '13.
- Technische Universität (TU) Berlin, Germany, Dec '13.
- Princeton University (general examination seminar), Jan '12.

### **TECHNOLOGY TRANSFER AND IMPACT**

- Upstreamed Linux kernel patch on making BPF abstract multiplication more precise '25
- Upstreamed Linux kernel patch on making abstract operators modularly sound '24;
- Upstreamed Linux kernel patch on multiplication of tristate numbers, '21
- QUIC congestion control plane implementation merged into Facebook's mvfst software and mTCP/DPDK
- Upstreamed Linux kernel patch on exposing transport-level receive and transmit rate measurements, '17

## PH.D. THESES ADVISED

- Qiongwen Xu (Rutgers University, '19–Aug'24). First position: Microsoft Azure in Seattle, Washington
- Xiangyu Gao (NYU, graduated Jun'24), co-advised with Anirudh Sivaraman (NYU). First position: Postdoctoral researcher at University of Washington Seattle
- Bala Murali Komanduri Krishna (Rutgers University, '18–)
- Bhavana Vannarth Shobhana (Rutgers University, '21–), co-advised with Badri Nath
- Harishankar Vishwanathan (Rutgers University, '21–), co-advised with Santosh Nagarakatte

## M.S. THESES ADVISED

- Ajay Raghavan, M.S. thesis, '24–'25 (expected)
- Vijay Souri Maddila, M.S. thesis, '23–'24
- Sai Pradyumn Shrivastava, M.S. thesis, '23–'24
- Aditya Murugadass (M.S. at Rutgers), summer '23, M.S. thesis '23–'24

## UNDERGRADUATE THESES ADVISED

- Arunima Bhowmik (undergraduate at Rutgers), Spring'23 Project SUPER student, undergraduate capstone course '23–'24
- Rajat Patel, undergraduate capstone course '23–'24
- John Hoban (undergraduate at Rutgers), AY thesis '21–'22 (**Paul Robeson scholar**)
- Songyuan Zhang (undergraduate at Rutgers), '20–fall'22

## STUDENT MENTORING (NON-THESIS)

- Brian Zhang (undergraduate '25), Aresty academic year research assistant '24–'25
- Danikka Crystal Jelski (undergraduate '26), Aresty academic year research assistant '24–'25
- Yen-Lin Chien, M.S., independent study summer'24 & fall'24
- Maulikaa Manikantan (undergraduate '26), Project SUPER summer'24
- Olivia Morales (undergraduate '26), Project SUPER summer'24
- Isha Shrivastava (undergraduate '26), Project SUPER summer'24
- Shivam Kajaria (undergraduate '24), independent study fall'23
- Nima Fallah (undergraduate '26), independent study spring'24
- Saumya Sachdev, M.S., independent study fall '23
- Laksh Kotian, M.S., independent study fall'23
- Ganesh Rohit Basam, M.S., independent study fall '23
- Shinbee Kang (undergraduate '25), independent study fall'23, Project SUPER summer'22
- Anirudh Srinivasa Raghavan (M.S. at Rutgers), summer '23
- Shivangi Rohilla (undergraduate at Rutgers), Spring '22, Aresty academic year research assistant '22–'23
- Chongeng Zheng (undergraduate at Rutgers), Spring'23
- Sandipan Mondal (undergraduate at Rutgers), Spring'23
- Anush Paudyal (undergraduate at Rutgers), Spring'23
- Jessie Liang (undergraduate at Rutgers), Independent study Spring '22, Spring '23
- Heon Yim (undergraduate at Rutgers), Summer '22, independent study Fall '22
- Zaneta Failbus (undergraduate at Rutgers), Project SUPER Summer '22, fall '22
- Nishant Dhargalkar (M.S. at Rutgers), Summer '22
- Vaishnavi Manthena (undergraduate at Rutgers), Aresty academic year research assistant '21–'22 (**Rizvi Prize**)
- Andrea Gil-Lopez (undergraduate at Rutgers), LSAMP academic year research assistant, '20–'21
- Delta Lyczak (undergraduate at Lafayette College, PA), DIMACS summer intern'21
- Tavis Johnson (undergraduate at Iona College, NY), DIMACS summer intern'21
- Anthony Chavez (undergraduate at Rutgers-Newark), LSAMP summer intern'21
- Thaquiab Ahammed (undergraduate at Rutgers), LSAMP summer intern'21
- Sebastian Lezaros Romero (undergraduate at Rutgers), Aresty-LSAMP summer intern'21
- Tanvi Wagle (undergraduate at Rutgers), Aresty academic year research assistant '20–'21 (**Novielli Prize**)
- Kevin DeFreitas (undergraduate at Rutgers), fall'20
- Michael Dean Wong, '20–'21 (now graduate student at Princeton)
- Lance Tan (undergraduate at Yale University), DIMACS summer intern'20
- Zhen Yi Pan (undergraduate at Stony Brook University), DIMACS summer and fall intern'20
- Sukumar Gaonkar (M.S. student at Rutgers, now at Bloomberg), '19–'20

Additionally, I worked closely with the following students prior to my stint as a faculty member, either when I was a post-doc or a Ph.D. student.

- Frank Cangialosi (graduate student at MIT), '16-'22
- Akshay Narayan (graduate student at MIT), '16-'18
- Prateesh Goyal (graduate student at MIT), '16-'18
- Michael Chang (undergraduate at Princeton, now a graduate student at UC Berkeley), '15-'16
- Vibhaa Sivaraman (undergraduate at Princeton, now a graduate student at MIT), '15-'16
- Mina Tashmasbi (graduate student at Princeton, now postdoc at Cornell), '14-'16
- Anshuman Mohan (undergraduate at Yale/National University of Singapore), '15
- Violeta Ilieva (Princeton), '15

## PROFESSIONAL SERVICE AT RUTGERS UNIVERSITY

- M.S. advising committee '23-'24
- School of Arts and Sciences Honors Program Mentor, '22-'23, '23-'24, '24-'25
- Qualifying Exam Member Assignment Committee '24
- School of Arts and Sciences IT advisory committee, '23
- Faculty hiring committee, '20, '19, '24
- Masters admissions committee, '21, '22, '23
- Office of Advanced Research Computing (OARC) advisory committee, '18-

## PROFESSIONAL SERVICE OUTSIDE RUTGERS

- Technical Program Committee, Asia Pacific workshop on Networking (APNet) 2025
- NSF panel 2025
- Invited to Technical Program Committee, Symposium on Operating Systems Design and Implementation (OSDI) '25
- Chair and Co-Organizer of the second workshop on eBPF and kernel extensions, co-located with ACM SIGCOMM'24
- Technical Program Committee, ACM Hot Topics in Networking (HotNets) '24
- NSF panel, 2024
- Technical Program Committee, Symposium on Networked Systems Design and Implementation (NSDI) '25
- Chair and Co-Organizer of the first workshop on eBPF and kernel extensions, co-located with ACM SIGCOMM'23
- Technical Program Committee, Symposium on Networked Systems Design and Implementation (NSDI) '24
- Technical Program Committee, International Conference on Network Protocols (ICNP), '22
- Editorial Board, Journal of Systems Research (JSys), 2022-23
- Technical Program Committee, Symposium on Networked Systems Design and Implementation (NSDI) '23
- Technical Program Committee, Asia-Pacific workshop on networking (APNet) '22
- Editorial Board, Journal of Systems Research (JSys), 2021-22
- Technical Program Committee, Symposium on Cloud Computing (ACM SoCC) '21
- Technical Program Committee, ACM HotNets'21
- Expert roundtable series, P4 and Programmable Forwarding Summit '20
- Technical Program Committee, P4 and Programmable Forwarding Summit '20
- Reviewer, ACM/IEEE Transactions on Networking (ToN) '20
- Reviewer, Journal of Parallel and Distributed Computing (JPDC) '19
- Reviewer, IEEE Transactions on Network Science and Engineering '19
- Reviewer, ACM/IEEE Transactions on Networking (ToN) '19
- Technical Program Committee, ACM CoNext student workshop '19
- Technical Program Committee, New England Networking and Systems (NENS) day, '19
- Technical Program Committee, IEEE Sarnoff Symposium '19
- Organizing Committee (web and publicity chair), ACM SIGCOMM '20
- Technical Program Committee (Light), ACM SIGCOMM '19
- Reviewer, ACM/IEEE Transactions on Networking (ToN) '18
- Reviewer, IEEE Transactions on Parallel and Distributed Systems (TPDS) '18
- Technical Program Committee, ACM CoNext '18
- Technical Program Committee, ACM CoNext student workshop '18
- Technical Program Committee, ACM SIGCOMM '18 posters and demos
- Technical Program Committee, Workshop on Self-Driving Networks, ACM SIGCOMM '18

- Technical Program Committee, IEEE International Conference on High Performance Switching and Routing (HPSR) '18
- Technical Program Committee, ACM Symposium on SDN Research (SOSR) '18
- Reviewer, ACM/IEEE Transactions on Networking (ToN) '17
- Technical Program Committee, ACM CoNext student workshop '17
- Technical Program Committee, ACM CoNext student workshop '16
- Reviewer, ACM/IEEE Transactions on Networking (ToN) '16
- Reviewer, IEEE INFOCOM '16
- Reviewer, Formal Methods in Computer-Aided Design (FMCAD) '16
- Reviewer, IEEE Transactions on Dependable and Secure Computing (TDSC) '16
- Reviewer, IEEE Transactions on Network and Service Management (TNSM) '16
- Reviewer, IEEE Transactions on Parallel and Distributed Systems (TPDS) '16
- Reviewer, ACM Symposium on SDN research (SOSR) '15
- Reviewer, Formal Methods in Computer-Aided Design (FMCAD) '15

## PROFESSIONAL DEVELOPMENT

- Nvidia/Mellanox Bluefield 2 bootcamp and hackathon, '21
- Graduate of Barefoot Academy (hands-on programming of Barefoot Networks switches), '17
- Kaufman teaching certificate program (KTCP), MIT, '17
- Postdoc leadership workshop, MIT, '16
- New York Academy of Sciences “Speaking Science” workshop, New York city, '16
- Head of Web Operations, shaastra.org, '09

Further, I was invited to attend discussions and give talks at these invitation-only research workshops.

- US-Japan NSF workshop on programmable networking, Nov 2020
- NSF CSR/NeTS PI meeting, Oct 2019
- NSF workshop on programmable networks, Oct 2018
- NII Shonan workshop, Feb 2018

## OUTREACH ACTIVITIES

- School of Arts and Sciences Honors Program Mentor, 2 students in '22-'23, 3 students '23-'24
- Project SUPER (increasing participation of women in computing), summer '22, summer '24
- Aresty academic year research assistant, '20, '21, '22, 2 students in '24-'25
- Research Experiences for Undergraduates at the Louis Stokes Alliance for Minority Participation (LSAMP), summer '20-'21, '21, '21-'22
- Research Experiences for Undergraduates at Rutgers/DIMACS, summer'20, summer'21
- New York Academy of Sciences (NYAS) STEM Mentor '19
- Organizer of networking research reading group at IIT Madras, Chennai, India, '17
- Teaching volunteer for Boston STEM week, '16
- Internship coordinator for Computer Science at IIT Madras, '08-'09
- Organizer of the Shaastra Online Programming Contest, '08
- Volunteer for the National Service Scheme (NSS), India, '06-'07

Last updated April 13, 2025