

CONTACT	https://jprohrer.org	jprohrer@tancad.org	+1 831 319 6872
CITIZENSHIP	USA		
CLEARANCE	DOD ANACI, Secret, 3 March 2012		
RESEARCH	Network system design, software-defined networks, resilient and survivable networks, transport protocols, multipath algorithms, disruption tolerance, MANET routing, network testbeds, simulation tools		
EDUCATION	<i>Ph.D. with honors, Electrical Engineering</i> , Fall 2011		GPA: 4.0 (4.0 scale)
	The University of Kansas		Lawrence, Kansas USA
	Thesis: <i>End-to-End Resilience Mechanisms for Network Transport Protocols</i>		
	Advisor: Professor James P.G. Sterbenz		
	<i>B.S., Electrical Engineering</i> , May 2004		GPA: 3.5 (4.0 scale)
	Rensselaer Polytechnic Institute		Troy, NY USA
	Minors in Economics and Physics		
EMPLOYMENT	<i>Assistant Professor</i>		11/2016–Present
	Department of Computer Science		Monterey, CA
	Naval Postgraduate School		
	Teach classes and conduct research programs in delay- and disruption-tolerant networking, mobile ad-hoc routing, vehicular networks, network measurement, and software-defined network testbeds. Teach network-relevant computer science classes. Advise graduate thesis research.		
	<i>Research Assistant Professor</i>		03/2014–11/2016
	Department of Computer Science		Monterey, CA
	Naval Postgraduate School		
	Conduct research programs in delay- and disruption-tolerant networking, mobile ad-hoc routing, vehicular networks, network measurement, and software-defined network testbeds. Teach network-relevant computer science classes. Advise graduate thesis research.		
	<i>Research Associate (PostDoc)</i>		12/2011–03/2014
	Department of Computer Science		Monterey, CA
	Naval Postgraduate School		
	Conduct research programs in delay- and disruption-tolerant networking, mobile ad-hoc routing, vehicular networks, and software-defined network testbeds. Teach network-relevant computer science classes. Advise graduate thesis research.		
	<i>Graduate Research Assistant</i>		08/2004–12/2011
	Information & Telecommunication Technology Center		Lawrence, KS
	Department of Electrical Engineering & Computer Science		
	The University of Kansas		
	Develop and lead research efforts in highly-mobile airborne networking, disruption tolerant routing and transport protocols, and network diversity analysis. Develop and manage large-scale software-defined networking testbed. Mentor graduate thesis research.		
	<i>Graduate Teaching Assistant</i>		08/2008–12/2010
	Department of Electrical Engineering & Computer Science		Lawrence, KS
	The University of Kansas		
	EECS–881: High Performance Networking		2 semesters
	EECS–168: Programming 1		1 semester

Network Engineer 09/1999–06/2004
Adirondack Area Network Castleton, NY
 Responsible for switch and router configuration on Cisco-based frame-relay network with approximately 200 circuits. Developed automated management and testing applications. Responsible for A/V, teleconference, telemedicine, and distance-learning room design, equipment specification, and acquisition. Performed on-site network and equipment installations.

TEACHING EXPERIENCE

Naval Postgraduate School **Fall 2013–Present**
Research Assistant Professor Network Modeling and Analysis (CS4554)
 – Spring 2015, 7 students
Research Assistant Professor Network Traffic Analysis (CS4558)
 – Winter 2016, 20 students
 – Spring 2015, 33 students
 – Spring 2014, 8 students
Research Associate Computer Networks (CS3502)
 – Fall 2013, 22 students

The University of Kansas **Fall 2008–Fall 2010**
Graduate Teaching Assistant High Performance Networking (EECS–881)
 – Fall 2010, 8 students
 – Fall 2008, 11 students
Graduate Teaching Assistant Programming 1 (EECS-168)
 – Spring 2009, 29 students

Sage Junior College of Albany **Fall 1999–Spring 2000**
Teaching Assistant Physics 1 & 2
 – Fall 1999 & Spring 2000, 10 students

RESEARCH EXPERIENCE

Naval Postgraduate School

Distributed Platform for High-Speed Active Network Topology Discovery 10/2017–09/2018
 – Funding agency: Laboratory for Telecommunication Sciences 12/2014–12/2016
 – Advance the state-of-the-art in high-speed network topology probing
 – PI/CoPI: Dr. Justin P. Rohrer/Dr. Robert Beverly

Underwater Masked Carrier Acoustic Communication 10/2016–Present
 – Funding agency: Naval Research Program 10/2016–01/2018
 – PI: Dr. Justin P. Rohrer

Disruption Tolerant Networking for Military Wireless Communications 10/2014–Present
 – Funding agency: Naval Research Program 10/2015–01/2017
 – Evaluating suitability of current DTN implementations for use in USMC tactical Networks
 – PI: Dr. Justin P. Rohrer

Software Development for Network Deception Technologies 04/2017–09/2017

- Funding agency: Laboratory for Telecommunication Sciences 04/2017–09/2017
- Advance the state-of-the-art in network deception detection
- Use knowledge gained to improve resilience of network measurement techniques and mapping systems
- Improve quality of network deception iteratively
- PI/CoPI: Dr. Robert Beverly/Dr. Justin P. Rohrer

Understanding Resilience of Active Internet Measurements to Deception 10/2014–03/2017

- Funding agency: Laboratory for Telecommunication Sciences 10/2014–03/2017
- Advance the state-of-the-art in network deception detection
- Use knowledge gained to improve resilience of network measurement techniques and mapping systems
- Improve quality of network deception iteratively
- PI/CoPI: Dr. Robert Beverly/Dr. Justin P. Rohrer

Crowd Sourced Formal Verification 01/2013–09/2015

- Funding agency: DARPA
- PI: Professor Geoffrey G. Xie

Disruption Tolerant Networking for Military Wireless Communications 12/2011–09/2014

- Funding agency: SPAWAR Systems Center Pacific 06/2014–09/2014
- Funding agency: Office of Naval Research (ONR) 12/2011–09/2013
- PI: Professor Geoffrey G. Xie

The University of Kansas, Information & Telecommunication Technology Center

Multilayer Network Resilience Analysis and Experimentation on GENI 08/2010–12/2011

- Funding agency: National Science Foundation (NSF) – EAGER
- Supervisor: Professor James P.G. Sterbenz

Aeronautical Network Telemetry Protocols 05/2009–12/2011

- Funding agency: US Army PEO STRI contracting office – T&E/S&T program
- Supervisor: Professor James P.G. Sterbenz

Great Plains Environment for Network Innovation (GpENI) 08/2008–12/2011

- Part of GENI, managed by the GENI Project Office (GPO) at BBN Technologies
- Funding agency: National Science Foundation (NSF) – CISE
- Supervisor: Professor James P.G. Sterbenz

Weather Disruption-Tolerant Mesh Networking 01/2008–12/2008

- Funding agency: Sprint
- Supervisor: Professor Victor Frost

Context Based Networking 08/2007–05/2009

- Funding agency: Sprint
- Supervisor: Professor James P.G. Sterbenz

Postmodern Internetwork Architecture 08/2006–07/2009

- Funding agency: National Science Foundation (NSF) – FIND
- Supervisor: Professor James P.G. Sterbenz

Development of an Integrated Bioinformatics Infrastructure 01/2005–08/2006

- Funding agency: US Army – Edgewood Chemical and Biological Center
- Supervisor: Professor Victor Frost

ChatTrack 08/2004–12/2004

- Supervisor: Professor Susan Gauch

PUBLICATIONS

Book Chapters

James P. G. Sterbenz, **Justin P. Rohrer**, Mohammed J.F. Alenazi, Truc Anh N. Nguyen, Egemen K. Çetinkaya, Hemanth Narra, Kamakshi S. Pathapati, and Kevin Peters. Disruption-tolerant airborne networks and protocols. In Kamesh Namuduri, Serge Chaumette, Jae H Kim, and James P. G. Sterbenz, editors, *UAV Networks and Communications*, chapter 4, pages 58–95. Cambridge University Press, 1st edition, January 2018.

Journal Papers

Justin P. Rohrer, Blake LaFever, and Robert Beverly. Empirical study of router IPv6 interface address distributions. *IEEE Internet Computing*, 20(4):36–45, July 2016.

Justin P. Rohrer, Abdul Jabbar, and James P.G. Sterbenz. Path diversification for future internet end-to-end resilience and survivability. *Telecommunication Systems*, 56(1):49–67, May 2014.

Deep Medhi, Byrav Ramamurthy, Caterina Scoglio, **Justin P. Rohrer**, Egemen K. Çetinkaya, Ramkumar Cherukuri, Xuan Liu, Pragatheeswaran Angu, Andy Bavier, Cort Buffington, and James P.G. Sterbenz. The GpENI testbed: Network infrastructure, implementation experience, and experimentation. *Computer Networks*, 61(0):51–74, March 2014. Special issue on Future Internet Testbeds – Part I.

Egemen K. Çetinkaya, Mohammed J.F. Alenazi, Andrew M. Peck, **Justin P. Rohrer**, and James P. G. Sterbenz. Multilevel resilience analysis of transportation and communication networks. *Springer Telecommunication Systems Journal*, July 2013. (accepted July 2013).

James P.G. Sterbenz, Egemen K. Çetinkaya, Mahmood A. Hameed, Abdul Jabbar, Qian Shi, and **Justin P. Rohrer**. Evaluation of network resilience, survivability, and disruption tolerance: Analysis, topology generation, simulation, and experimentation (invited paper). *Springer Telecommunication Systems*, 52(2):705–736, February 2013. (published online 2011).

James P. G. Sterbenz, David Hutchison, Egemen K. Çetinkaya, Abdul Jabbar, **Justin P. Rohrer**, Marcus Schöller, and Paul Smith. Redundancy, diversity, and connectivity to achieve multilevel network resilience, survivability, and disruption tolerance (invited paper). *Springer Telecommunication Systems Journal*, 2012. (accepted April 2012).

Justin P. Rohrer, Abdul Jabbar, Egemen K. Çetinkaya, Erik Perrins, and James P.G. Sterbenz. Highly-dynamic cross-layered aeronautical network architecture. *IEEE Transactions on Aerospace and Electronic Systems (TAES)*, 47(4):2742–2765, October 2011.

Abdul Jabbar, **Justin P. Rohrer**, Victor S. Frost, and James P. G. Sterbenz. Survivable millimeter-wave mesh networks. *Computer Communications (COMCOM)*, 34(16):1942–1955, October 2011.

James P. G. Sterbenz, David Hutchison, Egemen K. Çetinkaya, Abdul Jabbar, **Justin P. Rohrer**, Marcus Schöller, and Paul Smith. Resilience and survivability in communication networks: Strategies, principles, and survey of disciplines. *Computer Networks: Special Issue on Resilient and Survivable Networks (COMNET)*, 54(8):1245–1265, June 2010.

Lance Feagan, **Justin P. Rohrer**, Alexander Garrett, Heather Amthauer, Ed Komp, David Johnson, Adam Hock, Terry Clark, Gerald Lushington, Gary Minden, and Victor S. Frost. Bioinformatics process management: Information flow via a computational journal. *Source Code for Biology and Medicine*, 2(1):1–9, 2007.

Conference Papers

Justin P. Rohrer. Geographic centroid routing for vehicular networks. In *Proceedings of the Seventh International Conference on Advances in Vehicular Systems, Technologies and Applications (VEHICULAR)*, pages 7–12, Venice, Italy, June 2018. IARIA.

Justin P. Rohrer and Andrew N. Mauldin. Implementation of epidemic routing with ip convergence layer in ns-3. In *Proceedings of the 2018 Workshop on ns-3 (WNS3)*, Surathkal, India, June 2018. ACM.

Alexis Pospischil and **Justin P. Rohrer**. Multihop routing of telemetry data in drone swarms. In *Proceedings of the International Telemetering Conference (ITC)*, Las Vegas, NV, October 2017.

Justin P. Rohrer. Effects of GPS error on geographic routing. In *Proceedings of the 26th International Conference on Computer Communications and Networks (ICCCN)*, Vancouver, Canada, August 2017. IEEE.

Justin P. Rohrer and Kevin M. Killeen. Geolocation assisted routing protocols for vehicular networks. In *Proceedings of the 5th IEEE International Conference on Connected Vehicles (ICCVE)*, Seattle, WA, September 2016.

Erik C. Rye, **Justin P. Rohrer**, and Robert Beverly. Revisiting as-level graph reduction. In *Eighth IEEE International Workshop on Network Science for Communication Networks (NetSciCom)*, pages 840–845. IEEE, April 2016.

Truc Anh N. Nguyen, **Justin P. Rohrer**, and James P.G. Sterbenz. ResTP: A transport protocol for FI resilience. In *The 10th International Conference on Future Internet (CFI)*, pages 9–12, New York, NY, USA, 2015. ACM.

Lance A. Alt, **Justin P. Rohrer**, and Geoffrey G. Xie. Demo: Application-transparent deployment of DTN via SmartNet. In *Proceedings of the 9th ACM MobiCom workshop on Challenged Networks*, pages 93–96. ACM, September 2014.

U. Tellioglu, G. G. Xie, **Justin P. Rohrer**, and C. Prince. Whale of a crowd: Quantifying the effectiveness of crowd-sourced serious games. In *Computer Games: AI, Animation, Mobile, Multimedia, Educational and Serious Games (CGAMES)*, pages 1–7, July 2014.

Justin P. Rohrer and Geoffrey G. Xie. DTN hybrid networks for vehicular communications. In *Proceedings of the IEEE 2nd International Conference on Connected Vehicles*, pages 114–120, Las Vegas, NV, December 2013.

Mohammed Alenazi, Santosh Ajith Gogi, Dongsheng Zhang, Egemen K. Çetinkaya, **Justin P. Rohrer**, and James P. G. Sterbenz. Implementation of aeronautical network protocols. In *Proceedings of the AIAA Infotech@Aerospace Conference*, Boston, MA, August 2013.

Robert Beverly, William Brinkmeyer, Matthew Luckie, and **Justin P. Rohrer**. IPv6 alias resolution via induced fragmentation. In *Proceedings of the 14th Conference on Passive and Active Network Measurement (PAM)*, March 2013.

Justin P. Rohrer, Kamakshi Sirisha Pathapati, Truc Anh N. Nguyen, and James P. G. Sterbenz. Opportunistic transport for disrupted airborne networks. In *Proceedings of the IEEE Military Communications Conference (MILCOM)*, pages 737–745, Orland, FL, USA, October 29–November 1 2012.

Justin P. Rohrer and Geoffrey G. Xie. DTN gateway architecture for partially disconnected telemetry environments. In *Proceedings of the International Telemetry Conference (ITC)*, San Diego, CA, October 2012.

Kamakshi Sirisha Pathapati, **Justin P. Rohrer**, and James P.G. Sterbenz. Comparison of adaptive transport layer error-control mechanisms for highly-dynamic airborne telemetry networks. In *Proceedings of the International Telemetry Conference (ITC)*, San Diego, CA, October 2012.

Santosh Ajith Gogi, Dongsheng Zhang, Egemen K. Çetinkaya, **Justin P. Rohrer**, and James P. G. Sterbenz. Implementation of the AeroTP transport protocol in python. In *Proceedings of the International Telemetry Conference (ITC)*, San Diego, CA, October 2012.

Egemen K. Çetinkaya, Mohammed J.F. Alenazi, **Justin P. Rohrer**, and James P. G. Sterbenz. Topology connectivity analysis of internet infrastructure using graph spectra. In *Proceedings of the 4th IEEE/IFIP International Workshop on Reliable Networks Design and Modeling (RNDM)*, St. Petersburg, October 2012.

Mohammed J. F. Alenazi, Egemen K. Çetinkaya, **Justin P. Rohrer**, and James P. G. Sterbenz. Implementation of the AeroRP and AeroNP protocols in Python. In *Proceedings of the International Telemetry Conference (ITC)*, San Diego, CA, October 2012.

Egemen K. Çetinkaya, **Justin P. Rohrer**, Abdul Jabbar, Mohammed J.F. Alenazi, Dongsheng Zhang, Dan S. Broyles, Kamakshi Sirisha Pathapati, Hemanth Narra, Kevin Peters, Santosh Ajith Gogi, and James P. G. Sterbenz. Protocols for highly-dynamic airborne networks. In *Proceedings of the 18th ACM Annual International Conference on Mobile Computing and Networking (MobiCom)*, Istanbul, August 2012. extended abstract.

Egemen K. Çetinkaya, **Justin P. Rohrer**, and James P.G. Sterbenz. Resilience of backbone provider networks. In *IEEE INFOCOM Student Workshop*, Orlando, FL, March 2012.

Justin P. Rohrer, Egemen K. Cetinkaya, Hemmanth Narra, Dan Broyles, Kevin Peters, and James P. G. Sterbenz. AeroRP performance in highly-dynamic airborne networks using 3D gauss-markov mobility model. In *Proceedings of the IEEE Military Communications Conference (MILCOM)*, Baltimore, MD, USA, November 7–10 2011.

Mohammed AL-Enazi, Santosh Ajith Gogi, Dongsheng Zhang, Egemen K. Çetinkaya, **Justin P. Rohrer**, and James P. G. Sterbenz. ANTP protocol suite software implementation architecture in python. In *International Telemetry Conference (ITC)*, Las Vegas, NV, October 2011.

Kamakshi Sirisha Pathapati, Anh Nguyen, **Justin P. Rohrer**, and James P.G. Sterbenz. Performance analysis of the AeroTP transport protocol for highly-dynamic airborne telemetry networks. In *Proceedings of the International Telemetry Conference (ITC)*, Las Vegas, NV, October 2011. (awarded **Best Graduate Student Paper**).

Justin P. Rohrer and James P. G. Sterbenz. Predicting topology survivability using path diversity. In *Proceedings of the IEEE/IFIP International Workshop on Reliable Networks Design and Modeling (RNDM)*, pages 95–101, Budapest, Hungary, October 5–7 2011.

Justin P. Rohrer, Egemen K. Çetinkaya, and James P.G. Sterbenz. Resilience experiments in the GpENI programmable future internet testbed. In *Proceedings of the 11th Würzburg Workshop on IP: Joint ITG and Euro-NF Workshop "Visions of Future Generation Networks" (EuroView2011)*, pages 29–30, Würzburg, Germany, August 2011.

Justin P. Rohrer, Egemen K. Çetinkaya, and James P. G. Sterbenz. Progress and challenges in large-scale future internet experimentation using the GpENI programmable testbed. In *The 6th ACM International Conference on Future Internet Technologies (CFI)*, pages 46–49, Seoul, Korea, June 2011.

Hemanth Narra, Yufei Cheng, Egemen K. Çetinkaya, **Justin P. Rohrer**, and James P.G. Sterbenz. Destination-sequenced distance vector (DSDV) routing protocol implementation in ns-3. In *Proceedings of the ICST SIMUTools Workshop on ns-3 (WNS3)*, Barcelona, Spain, March 2011.

James P.G. Sterbenz, Egemen K. Çetinkaya, Mahmood A. Hameed, Abdul Jabbar, and **Justin P. Rohrer**. Modelling and analysis of network resilience (invited paper). In *Proceedings of the Third IEEE International Conference on Communication Systems and Networks (COMSNETS)*, pages 1–10, Bangalore, India, January 2011.

Justin P. Rohrer, Abdul Jabbar, Egemen K. Çetinkaya, and James P.G. Sterbenz. Airborne telemetry networks: Challenges and solutions in the ANTP suite. In *Proceedings of the IEEE Military Communications Conference (MILCOM)*, pages 74–79, San Jose, CA, USA, November 2010.

Kamakshi Sirisha Pathapati, **Justin P. Rohrer**, and James P. G. Sterbenz. Edge-to-edge ARQ: Transport-layer reliability for airborne telemetry networks. In *Proceedings of the International Telemetering Conference (ITC)*, San Diego, CA, October 2010.

James P. G. Sterbenz, Deep Medhi, Byrav Ramamurthy, Caterina Scoglio, David Hutchison, Bernhard Plattner, Tricha Anjali, Andrew Scott, Cort Buffington, Gregory E. Monaco, Don Gruenbacher, Rick McMullen, **Justin P. Rohrer**, John Sherrell, Pragatheeswaran Angu, Ramkumar Cherukuri, Haiyang Qian, and Nidhi Tare. The Great plains Environment for Network Innovation (GpENI): A programmable testbed for future internet architecture research. In *Proceedings of the 6th International Conference on Testbeds and Research Infrastructures for the Development of Networks & Communities (TridentCom)*, pages 428–441, Berlin, Germany, May 18–20 2010.

Justin P. Rohrer, Ramya Naidu, and James P. G. Sterbenz. Multipath at the transport layer: An end-to-end resilience mechanism. In *Proceedings of the IEEE/IFIP International Workshop on Reliable Networks Design and Modeling (RNDM)*, pages 1–7, St. Petersburg, Russia, October 2009.

Justin P. Rohrer and James P. G. Sterbenz. Performance and disruption tolerance of transport protocols for airborne telemetry networks. In *Proceedings of the International Telemetering Conference (ITC) 2009*, Las Vegas, NV, October 2009.

Justin P. Rohrer, Abdul Jabbar, and James P. G. Sterbenz. Path diversification: A multipath resilience mechanism. In *Proceedings of the IEEE 7th International Workshop on the Design of Reliable Communication Networks (DRCN)*, pages 343–351, Washington, DC, USA, October 2009.

Abdul Jabbar, **Justin P. Rohrer**, Andrew Oberthaler, Egemen K. Çetinkaya, Victor Frost, and James P. G. Sterbenz. Performance comparison of weather disruption-tolerant cross-layer routing algorithms. In *Proc. IEEE INFOCOM 2009. The 28th Conference on Computer Communications*, pages 1143–1151, April 2009.

Justin P. Rohrer, Abdul Jabbar, Erik Perrins, and James P. G. Sterbenz. Cross-layer architectural framework for highly-mobile multihop airborne telemetry networks. In *Proceedings of the IEEE Military Communications Conference (MILCOM)*, pages 1–9, San Diego, CA, USA, November 2008.

Justin P. Rohrer, Erik Perrins, and James P. G. Sterbenz. End-to-end disruption-tolerant transport protocol issues and design for airborne telemetry networks. In *Proceedings of the International Telemetering Conference*, San Diego, CA, October 27–30 2008. (awarded **Best Paper**).

Justin P. Rohrer, Weichao Wang, and James P. G. Sterbenz. Homogeneous security in heterogeneous networks: Towards a generic security management protocol. In *Proceedings of the IEEE Military Communications Conference (MILCOM)*, pages 1–6, Orlando, FL, USA, October 29-31 2007.

Patents & Technical Reports

Justin P. Rohrer and Geoffrey G. Xie. Gateway router and method for application-aware automatic network selection, 2016. US Patent 9,419,920 B1.

Erik Rye and **Justin P. Rohrer**. Graph reduction for emulated network experimentation. Technical Report NPS-CS-15-001, Naval Postgraduate School, Monterey, CA, May 2015.

James P.G. Sterbenz, **Justin P. Rohrer**, and Egemen K. Çetinkaya. Multilayer network resilience analysis and experimentation on GENI. ITTC Technical Report ITTC-FY2011-TR-61349-01, The University of Kansas, Lawrence, KS, July 2010.

Victor Frost, Terry Clark, Susan Gauch, Gerald Lushington, Gary Minden, Ed Komp, Adam Hock, David Johnson, Lance Feagan, Alexander Garrett, **Justin P. Rohrer**, Heather Amthauer, and Andrew Ozor. Bioinformatics computational journal: User guide. Technical Report ITTC-FY2008-TR-38270-04, Information Telecommunication and Technology Center, University of Kansas, Lawrence, KS, 2007.

Citation analysis on Google Scholar (<http://scholar.google.com/citations?user=aOy7jnQAAAAJ>)

SERVICE

Conference

- 2018 IARIA VEHICULAR *TPC Member*
- 2018 ACM MSWiM *TPC Member*
- 2018 IEEE GLOBECOM NGNI 2016 *TPC Member*
- 2018 Passive and Active Measurement conference (PAM) *TPC Member*
- 2017 IARIA VEHICULAR *TPC Member*
- 2017 ACM MSWiM *TPC Member*
- 2017 IEEE GLOBECOM NGNI 2016 *TPC Member*
- 2016 ACM/IEEE/IFAC/TRB ICCVE 2016 *TPC Member*
- 2016 IEEE Workshop on Network Measurements (WNM) 2016 *TPC Member*
- 2016 *IEEE International Conference on Electronic Design (ICED) Reviewer*
- 2016 IEEE GLOBECOM NGNI 2016 *TPC Member*
- 2015 ACM/IEEE/IFAC/TRB ICCVE 2015 *TPC Member*
- 2015 IEEE GLOBECOM NGNI 2015 *TPC Member*
- 2014 ACM/IEEE/IFAC/TRB ICCVE 2014 *TPC Member*
- 2014 IEEE GLOBECOM NGNI 2014 *TPC Member*
- 2013 ACM/IEEE/IFAC/TRB ICCVE 2013 *TPC Member*
- 2013 IEEE Workshop on Network Measurements (WNM) 2013 *TPC Member*
- 2013 IEEE GLOBECOM NGNI 2013 *TPC Member*
- 2012 ACM/IEEE/IFAC/TRB ICCVE 2012 *TPC Member*
- 2012 IEEE GLOBECOM NGNI 2012 *TPC Member*
- 2010 IWSOS 2011 *shadow TPC member*
- 2008 NSF-FIND *Student conference planning board*

Referee

- 2018 *IEEE Transactions on Aerospace and Electronic Systems (TAES)*
- 2018 *IEEE Communications Magazine*
- 2017 *IEEE Transactions on Network Science and Engineering (TNSE)*
- 2017 *IEEE Transactions on Mobile Computing (TMC)*
- 2017 *Springer Annals of Telecommunications (ANTE)*

- 2016 *Elsevier Computer Networks journal (COMNET)*
- 2014 *IEEE Communications Magazine*
- 2014 *AGH Computer Science Journal*
- 2014 *KICS/IEEE Journal of Communications and Networks*
- 2013 *IEEE MILCOM conference*
- 2013 *IEEE Transactions on Wireless Communications journal*
- 2012 *IEEE Symposium on Wireless Technology & Applications (ISWTA)*
- 2012 *IFIP/TC6 Networking conference*
- 2011 *IEEE GreenCom conference*
- 2011 *KKITS/ETRI ICCCT conference*
- 2011 *EURASIP Journal on Wireless Communications and Networking*
- 2011 *IEEE DRCN conference*
- 2010 *IEEE FutureNet-III conference*
- 2010 *IEEE/IFIP RNDM conference*
- 2009 *Elsevier COMNET journal*
- 2009 *IEEE DRCN conference*
- 2009 *IEEE GLOBECOM NGNI conference*
- 2009 *International Journal of Computer Mathematics*
- 2009 *IEEE ICCCN NAP conference*
- 2008 *IEEE IWSOS conference*

Professional

- 01/2010–12/2010 Vice-Chair of *IEEE Computer Society, Kansas City section*
- 01/2009–12/2009 Treasurer of *IEEE Computer Society, Kansas City section*
- 01/2008–12/2008 Secretary of *IEEE Computer Society, Kansas City section*
- 05/2003–05/2004 Chairman of *IEEE Student Chapter at RPI*
- 01/2003–12/2003 Bridge Correspondent of *Eta Kappa Nu, Beta Nu chapter (RPI)*

Academic

- 02/2017–Present NPS Information Technology Task Force
- 08/2003–05/2004 RPI ECSE Curriculum Committee member (first student member)
- 08/2003–05/2004 RPI School of Engineering Student Advisory Council

Contributor to Wikipedia

- Contributions to articles on network resilience and survivability

HONORS

- Best Graduate Student Paper Award – *International Telemetry Conference (ITC)* 10/2011
- EE Graduate Fellow – *Electrical Engineering and Computer Science Dept., KU* 08/2011–12/2011
- Best Poster Presentation Award – *Great Plains Network (GPN) annual meeting* 06/2011
- Included in 11th edition of *Who's Who in Science and Engineering* 01/2011
- Graduate Fellow – *International Foundation for Telemetry (IFT)* 08/2010–05/2011

Best Poster Award – <i>ITTC IAB meeting</i>	06/2010
2nd Best Poster Award – <i>Great Plains Network (GPN) annual meeting</i>	06/2010
Best Paper Award – <i>International Telemetry Conference (ITC)</i>	10/2008
Graduate Fellow – <i>ITTC</i>	08/2004–05/2006
Strobel Scholar – <i>KU</i>	08/2004–05/2005
National Dean's list	08/2001–05/2003
RPI Dean's list all semesters	08/2000–05/2004

July 2, 2018