

ZEBO YANG

Florida Atlantic University, Boca Raton, Florida
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EDUCATION

Washington University in St. Louis Aug 2021 - May 2025

Ph.D. in Computer Science

- **Advisor:** Prof. Raj Jain
- **Research Area:** Quantum Computing, Quantum Networks, Security, Machine Learning, and Blockchains.
- **Teaching Assistant:** CSE574S: Recent Advances in Wireless and Mobile Networking (Fall 2024, Fall 2022 and Fall 2020); CSE473S: Introduction to Computer Networks (Spring 2022); CSE570S: Recent Advances in Networking (Fall 2023 and Fall 2021)
- **Mentoring:** Chenliang Tian (Spring/Summer/Fall 2024)

Washington University in St. Louis Aug 2019 - 2021

Visiting Research Associate (Hosted by Prof. Raj Jain)

Waseda University Aug 2017 - 2019

Master's in Computer Engineering

- Advisor: Prof. Tatsuo Nakajima. Research Area: Distributed Systems, IoT, Ubiquitous Computing.
- Thesis: Sloth: A Reconfigurable Compiler for Task-based Intermittent Programming

EXPERIENCE

Florida Atlantic University May 2025 - Present

Assistant Professor, Department of Electrical Engineering and Computer Science *Boca Raton, FL*

- **Research Area:** Quantum Computing, Quantum Networks, Quantum Optimization, and Machine Learning.
- **Teaching:** COT 4930/5930: Intro to Quantum Computing (Fall 2025)

DJI Jul 2015 - 2017

Senior Software Engineer *Shenzhen*

- Role: Lead of the hybrid-app team in the Department of Research and Software Development.
- Responsibility: Led the architecture design and development of the hybrid software applications, including DJI Assistant 2, DJI Ground Station, Drone Simulator Game, and the internal hybrid-app framework.

Misfit Wearables Jul 2014 - 2015

Senior Web Engineer *Shenzhen*

- Role: Web Product Owner and Developer.
- Responsibility: Managed and developed web applications to enhance cloud services and online accessibility for the company's wearables, including platforms such as my.misfit.com, store.misfit.com, and misfit.com.

Baidu Jul 2011 - 2014

Senior Software Engineer *Shenzhen*

- Role: Full Stack Developer - Front-end and Back-end Software/Web Development.
- Responsibility: Developed software and website solutions for global users, including anti-malware software and input methods. Developed the automated internal framework for localization and multilingual support.

Tencent Jul 2010 - Oct 2010

Web Engineering Intern at Tencent Pay (WeChat Pay) *Shenzhen*

PUBLICATIONS

- S. Zhang, Y. Liu, B. Mark, W. Jiang, **Z. Yang**, and L. Yang, “Simulating circuit layout for distributed quantum computing,” *Optical Fiber Communications (OFC) Conference*, 2026
- C. Tian, **Z. Yang**, R. Jain, R. Kompella, R. Nejabati, E. Kaur, A. Erbad, M. Abdallah, and M. Hamdi, “Radar-q: Resource-aware distributed asynchronous routing for entanglement distribution in multi-tenant quantum networks,” *IEEE 5th International Conference on Innovations in Computing Research (ICR26)*, 2026
- C. Tian, **Z. Yang**, R. Jain, R. Kompella, R. Nejabati, E. Kaur, A. Erbad, M. Hamdi, and M. Abdallah, “Asynchronous routing for multipartite entanglement in quantum networks,” *IEEE 16th Annual Computing and Communication Workshop and Conference (CCWC)*, 2026
- Z. Yang**, C. Tian, R. Jain, R. Kompella, R. Nejabati, M. Hamdi, A. Erbad, and H. Shapourian, “Effective scheduling for quantum data centers,” in *2025 IEEE International Conference on Quantum Computing and Engineering (QCE)*, vol. 02, pp. 454–455, 2025
- Z. Yang**, A. Ghubaish, R. Jain, A. Al-Fuqaha, A. Erbad, R. Kompella, H. Shapourian, and R. Nejabati, “Layer-wise security framework and analysis for the quantum internet,” *IEEE Journal on Selected Areas in Communication*, 2025
- Z. Yang**, A. Ghubaish, R. Jain, R. Kompella, and H. Shapourian, “Multi-tree quantum routing in realistic topologies,” *IEEE Communications Magazine*, 2024
- Z. Yang**, A. Ghubaish, R. Jain, H. Shapourian, and A. Shabani, “Asynchronous entanglement routing for the quantum internet,” *AVS Quantum Science*, vol. 6, no. 1, 2024
- A. Ghubaish, **Z. Yang**, and R. Jain, “Hdrl-ids: A hybrid deep reinforcement learning intrusion detection system for enhancing the security of medical applications in 5g networks,” in *2024 International Conference on Smart Applications, Communications and Networking (Best Paper Award)*, pp. 1–6, 2024
- A. Ghubaish, **Z. Yang**, A. Erbad, and R. Jain, “Lemda: A novel feature engineering method for intrusion detection in iot systems,” *IEEE Internet of Things Journal*, pp. 1–1, 2023
- Z. Yang**, H. Alfauri, B. Farkiani, R. Jain, R. D. Pietro, and A. Erbad, “A survey and comparison of post-quantum and quantum blockchains,” *IEEE Communications Surveys & Tutorials*, pp. 1–1, 2023
- Z. Yang**, M. Zolanvari, and R. Jain, “A survey of important issues in quantum computing and communications,” *IEEE Communications Surveys & Tutorials*, vol. 25, no. 2, pp. 1059–1094, 2023
- T. Renduchintala, H. Alfauri, **Z. Yang**, R. D. Pietro, and R. Jain, “A survey of blockchain applications in the fintech sector,” *Journal of Open Innovation: Technology, Market, and Complexity*, vol. 8, no. 4, p. 185, 2022
- Z. Yang**, T. Salman, R. Jain, and R. Di Pietro, “Decentralization using quantum blockchain: A theoretical analysis,” *IEEE Transactions on Quantum Engineering*, vol. 3, pp. 1–16, 2022
- M. Zolanvari, **Z. Yang**, K. Khan, R. Jain, and N. Meskin, “Trust xai: Model-agnostic explanations for ai with a case study on iiot security,” *IEEE internet of things journal*, 2021
- Z. Yang**, A. Ghubaish, D. Unal, and R. Jain, “Factors affecting the performance of sub-1 ghz iot wireless networks,” *Wireless Communications and Mobile Computing*, vol. 2021, pp. 1–13, 2021
- Z. Yang**, M. Zhang, T. Zhang, L. Fu, and T. Nakajima, “Real world third-person with multiple point-of-views for immersive mixed reality,” in *Society with Future: Smart and Liveable Cities: First EAI International Conference, SC4Life 2019, Braga, Portugal, December 4-6, 2019, Proceedings 1*, pp. 97–108, Springer International Publishing, 2020
- Z. Yang** and T. Nakajima, “Connecting smart objects in iot architectures by screen remote monitoring and control,” *Computers*, vol. 7, no. 4, p. 47, 2018

RESEARCH GRANTS

- 2026 “Quantum Optimization for Latency-Aware and Congestion-Resilient Network Intelligence,” from Comcast Innovation Fund.
- 2024 “Quantum-Native Resource Management and Congestion Control for Quantum Data Centers,” awarded by the Cisco University Research Grant #92627757.
- 2024 “Optimal Resource Allocation in the Next-Generation Quantum-Classical Computer Networks,” awarded by the Qatar Research, Development, and Innovation (QRDI) Academic Research Grant.
- 2023 “Building the Foundation for a Scalable and Secure Quantum Internet,” awarded by the Qatar Research, Development, and Innovation (QRDI) Academic Research Grant #ARG01-0501-230053, PIs: Prof. Mounir Hamdi (HBKU), Prof. Aiman Erbad (QU) and Prof. Raj Jain (WUSTL).
- 2023 “Asynchronous Quantum-Native Routing for Quantum Networks,” awarded by the Cisco University Research Gift #86944165.

ACADEMIC ACTIVITIES

Journal/Conference Reviewer: IEEE Communications Surveys & Tutorials; IEEE Journal on Selected Areas in Communications; IEEE Communications Magazine; IEEE Network; IEEE Internet of Things Journal; IEEE Transactions on Cognitive Communications and Networking; IEEE Transactions on Information Forensics & Security; IEEE Transactions on Dependable and Secure Computing; IEEE Transactions on Systems, Man, and Cybernetics: Systems; IEEE Transactions on Vehicular Technology; IEEE/ACM Transactions on Networking; Elsevier: Separation and Purification Technology; Elsevier: Information Processing & Management; Elsevier: Informatics in Medicine Unlocked; Elsevier: Sustainable Futures; Annalen der Physik; Springer Nature: Scientific Reports; Springer: Quantum Machine Intelligence; Springer: The Journal of Supercomputing; IET Quantum Communication; Academia Quantum; ACM Journal on Autonomous Transportation Systems; ACM 2021 CHI Conference

Program Committee: IEEE Quantum Week 2025/2026 (QCE25/26); IEEE ICTAI 2026; IEEE CCNC 2026

AWARDS AND HONORS

- 2026 Best Paper Award - IEEE CCWC 2026
- 2024 NSF NeTS-ECI Workshop, Travel Grants
- 2023-2024 Honors Award (top 5%) in Periodic Review of Doctoral Students - Washington University
- 2024 Best Paper Award - IEEE SmartNets 2024
- 2023 Papers featured on social media of IEEE Communications Surveys & Tutorials (×2)
- 2022-2023 Honors Award (top 5%) in Periodic Review of Doctoral Students - Washington University
- 2019 CSCE Department Award - Waseda University
- 2009-2010 2nd Prize of the National Universities Open Source and Innovation Contest
2nd Prize of the National Challenge Cup Competition
- 2008-2012 Scholarship from the School of Informatics

TALKS

- 2024 Zebo Yang, “Quantum Variational Circuit for Machine Learning,” AI for Health Seminar.
- 2023 Zebo Yang, “Building Blocks of Quantum Networks,” Special Topics in Quantum Computing, 544T.
- 2022 Zebo Yang, “Asynchronous Routing for the Quantum Internet,” DSS Talk, Washington University.

PATENTS

Z. Guo, Z. Xie, H. Li, W. Li, D. Wang, and Z. Yang, “Flight control method and apparatus, and control device,” Jan. 30 2024. U.S. Patent 11,886,203