CURRICULUM VITAE

1. Name: Lijun Qian

Academic rank: Endowed Professor (full-time)

2. Education

Tsinghua University, Beijing, China	Electrical Engr.	B.E., 1993
The Technion - Israel Institute of Tech, Israel	Electrical Engr.	M.S.E.E., 1996
Rutgers - The State University of New Jersey, USA	Electrical Engr.	Ph.D., 2001

3. Appointments

Jul. 2017 - present	AT&T Endowed Professor, Department of ECE, Prairie View A&M University
Apr. 2015 - present	PI and Director, Center of Excellence in Research and Education for Big Military Data Intelligence (CREDIT Center)
Sep. 2013 – Jun.2017	Professor, Department of ECE, Prairie View A&M University
Sep. 2009-Aug. 2013	Associate Professor, Department of ECE, Prairie View A&M University
Summer 2010	Visiting Professor, Aalto University, Finland
2004 - 2012	Co-PI and Co-Founder, ARO Center of Excellence in Digital Battlefield Communications Research (CeBCom)
Aug.2003-Aug.2009	Assistant Professor, Department of ECE, Prairie View A&M University
Jan. 2001 - Aug. 2003	MTS, Networks and Systems Research Department, Bell-Labs, NJ, USA

4. Sample Recent Publications (total more than 200 peer-reviewed publications and more than 4,000 citations per Google Scholar)

- Y. Zhang, H. Xu, L. Qian (2023). "Joint Optimal Placement and Dynamic Resource Allocation for multi-UAV Enhanced Reconfigurable Intelligent Surface Assisted Wireless Network," *IEEE ROBOCOM 2023 (**Best Paper Award**)*.
- L. Nwosu, X. Dong, X. Li, S. Kim, and L. Qian (2022). "Calibrated Bagging Deep Learning for Image Semantic Segmentation: A Case Study on COVID-19 Chest X-ray Image," *PLoS ONE*.
- X. Dong and L. Qian (2022). "Semi-supervised Bidirectional RNN for Misinformation Detection," *Machine Learning with Applications*.
- O. Fagbohungbe, S. Reza, X. Dong, L. Qian (2022). "Efficient Privacy Preserving Edge Intelligent Computing Framework for Image Classification in IoT," *IEEE Transactions on Emerging Topics in Computational Intelligence*, vol. 6, no. 4, pp. 941-956, Aug. 2022.
- X. Dong, S. Chowdhury, U. Victor, X. Li, L. Qian. (2022) "Semi-supervised Deep Learning for Cell Type Identification from Single-Cell Transcriptomic Data," *IEEE/ACM Transactions on Computational Biology and Bioinformatics,* doi: 10.1109/TCBB.2022.3173587.
- D. Adesina, C. Hsieh, Y. E. Sagduyu, and L. Qian (2022). "Adversarial Machine Learning in Wireless Communications using RF Data: A Review," *IEEE Communications Surveys & Tutorials*.
- B. Yang, X. Cao, C. Huang, C. Yuen, M. Renzo, Y. Guan, D. Niyato, L. Qian, and M. Debbah (2022). "Federated Spectrum Learning for Reconfigurable Intelligent Surfaces-Aided Wireless Edge Networks," *IEEE Transactions on Wireless Communications,* doi: 10.1109/TWC.2022.3178445.
- O. Onasami, M. Feng, H. Xu, M. Haile, L. Qian (2022) "Underwater Acoustic Communication Channel Modeling using Reservoir Computing," *IEEE Access,* vol. 10, pp. 56550-56563, 2022.
- O. Fagbohungbe, L. Qian (2022). "The Effect of Batch Normalization on Noise Resistant Property of Deep Learning Models," *IEEE Access*.
- O. Fagbohungbe and L. Qian (2022). "L_1 Batch Normalization and Noise Resistant Property of Deep Learning Models," *2022 International Joint Conference on Neural Networks (IJCNN)*.

5. Memberships & Selected Professional Activities

- Senior Member of IEEE.
- Associate Editor, EURASIP Journal on Bioinformatics and Systems Biology; Editor, Wireless Ad Hoc Networks, Scientific Research Pub.; Editor, Scientific World Journal, Hindawi; Area Editor, EAI Transaction on Cognitive Communications; Lead Guest Editor, International Journal of Distributed Sensor Networks; Guest Editor, Tsinghua Science and Technology
- Organizer & General Chair, 2nd /3rd Mission-Critical Big Data Analytics Workshop 2017/2018; Track co-Chair of "Big Data and Machine Learning for Tactical Networks" in IEEE MILCOM 2018; Organizer & Publicity Chair, IEEE Workshop on Big Data Metadata and Management; Big Data Analytics Workshop Chair, AFCEA C4ISR & Cyber Conference 2016; TPC Chair, 1st Mission-Critical Big Data Analytics Workshop 2016; Organizer & Publication Chair, CPS Week 2015; Poster Chair, IEEE Sarnoff Symposium 2015, TPC co-Chair, Crowncom 2012; Organizing Committee, QShine 2010; TPC member of many conferences and Reviewer for numerous journals and conferences.
- Proposal Review Panel for NSF, ARO, NSERC.
- Supervised 14 PhD and 20 MS students, and 20 senior design projects (100 undergraduate seniors). Currently supervise 5 PhD students and 6 MS students.
- Founder and Director of the Wireless Communications Lab, the Deep Learning Lab and the Center of Excellence in Research and Education for Big Military Data Intelligence (CREDIT Center).

6. Sample Awards

- IEEE ROBOCOM 2023 Best Paper Award.
- Texas A&M University System Regents Professor Award.
- Supervisor and Lead of the Winning Team in the AI Tracks at Sea Challenge organized by the US Navy, 2021
- Best Paper Award, IEEE Globecom 2017.
- Supervisor and Lead of the Winning Team in the IEEE CyberC Big Data Competition, organized by the IEEE Big Data Initiative, Oct 2016.
- Outstanding Research Award, Prairie View A&M University, 2012, 2015, 2018, 2020.
- 2008 Outstanding Teacher of the Year**,** College of Engineering, PVAMU.
- Central Bell-Labs Teamwork Award, June 2003.

7. Sample Current Active Research Grants

- "Center of excellence in Research and Education for big military Data InTelligence (CREDIT)", PI, funded by US DOD, $6,000,000; 2015 – 2022.
- "Computational Biology and Bioengineering Research Lab at Prairie View A&M University", PI, funded by TAMUS CRI, $6,900,000; 2014 – 2023.
- "Bridging Quantitative Science with Biological Research: Jumpstarting Computational Systems Biology Research at PVAMU", PI, funded by US NSF, $1,000,000; 2017 – 2023.
- "Collaborative Research: SWIFT: Data Driven Learning and Optimization in Reconfigurable Intelligent Surface Enabled Industrial Wireless Network for Advanced Manufacturing", PI, funded by US NSF, $200,000; 2021 – 2024.
- "MRI: Acquisition and Development of Mobile Edge Computing Equipment for Research and Education of Big Data Analytics with Applications in Smart Grid", PI, funded by US NSF, $358,970; 2020 – 2023.
- "Multi-scale Multi-resolution Agriculture Data Analytics for Crop/Vegetation Health Prediction and Optimization", PI, funded by USDA, $450,000; 2022 – 2025.
- "Scientific Machine Learning for Simulation and Inversion", PI, funded by US DOD, $300,000; 2020 – 2023.
- "Advanced Deep Learning for Object Detection in Overhead Imagery", PI, funded by US AFRL, $224,671; 2022 – 2024.