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RESEARCH INTERESTS
Wireless System and Networking (Automation of Next-generation Cellular Network)
Mobile Computing (Wireless Sensing)

EDUCATION

The University of Texas at Austin, Austin, TX, United States — Jun 2020 – Present
Ph.D. Student in Computer Science, Advised by Prof. Lili Qiu & Prof. Sanjay Shakkottai

University of California, San Diego, La Jolla, CA, United States — Sep 2018 – Mar 2020
Master of Science in Electrical Engineering, Advised by Prof. Xinyu Zhang

University of Electronic Science and Technology of China (UESTC), China — Sep 2014 – Jun 2018
Bachelor of Engineering in Network Engineering

University of California, San Diego (UCSD), La Jolla, CA, United States — Sep 2017 – Dec 2017
Visiting Student in Electrical Engineering, Study Abroad Program

EMPLOYMENT

Research Scientist Internship, 5G Network Automation, AT&T Labs - Research, — Summer 2022 - 2024
Research Assistant, Wireless Networking and Communication Group, UT Austin, — Jun 2020 – Present
Research Assistant, mmWave Lab, UCSD Division of CALIT2, — Sep 2018 – Mar 2020

PUBLICATION

[C1] Kartik Patel, **Changhan Ge**, Ajay Mahimkar, Sanjay Shakkottai, Yusef Shaqalle. "CIPAT: Latent-resilient Toolkit for Performance Impact Prediction due to Configuration Tuning". In Proceedings of the 1st ACM Workshop on Machine Learning for NextG Networks (ACM MLNextG '24), 2024.

[C2] Zhaoyuan He, **Changhan Ge**, Wangyang Li, Lili Qiu, Peijie Li, Ghufran Baig. "Optimized Live 4K Video Multicast Streaming on Commodity WiGig Devices". In Proceedings of the Forty-fourth International Conference on Distributed Computing Systems (IEEE ICDCS '24), 2024.

[C3] Yiwen Song, **Changhan Ge**, Lili Qiu, Yin Zhang. "2ACE: Spectral Profile-driven Multi-resolutional Compressive Sensing for mmWave Channel Estimation". In Proceedings of the Twenty-fourth International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing (ACM MobiHoc '23), 2023.

[C4] **Changhan Ge**, Zihui Ge, Xuan Liu, Ajay Mahimkar, Yusef Shaqalle, Yu Xiang, Shomik Pathak. "Chroma: Learning and Using Network Contexts to Reinforce Performance Improving Configurations". In Proceedings of the Twenty-ninth International Conference on Mobile Computing and Networking (ACM MobiCom '23), 2023.

[C5] Ghufran Baig, **Changhan Ge**, Lili Qiu, Yuanjie Li, Wangyang Li, Wei Sun, Jian He, Zhehui Zhang, Songwu Lu. "Extracting and Predicting Multipath Profiles under High Mobility". In Proceedings of the Twenty-third International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing (ACM MobiHoc '22), 2022.

PATENT

[P1] Ajay Mahimkar, Shomik Pathak, Xuan Liu, Yusef Shaqalle, Zihui Ge, Yu Xiang, **Changhan Ge**, "Performance-driven Network Parameter Changes in a Communication Network", US Patent App 18/090,784

TECHNICAL REPORT

Changhan Ge, Xiao Sai, Andrew Yoo, Zhuolun Zhou, and Xinyu Zhang, "Millimeter-wave Architectures for Automated Vehicles: An Experiment-Driven Exploration", Proprietary Report of Sony Focused Research Project, Sony Corporation, 2019.

POSTER

Kartik Patel, **Changhan Ge**, Ajay Mahimkar, Sanjay Shakkottai, Yusef Shaqalle. "Predicting the Performance of Cellular Networks: A Latent-resilient Approach". In Proceedings of the 30th Annual International Conference on Mobile Computing and Networking (ACM MobiCom '24), 2024.

TEACHING

CS386W Wireless Networking, UT Austin, — Aug 2020 – Dec 2021
ECE257A Modern Communication Networks, UCSD — Sep 2019 – Dec 2019

PROFESSIONAL SKILLS

Programming: Python (Tensorflow, Pytorch), Java, C++
Software MATLAB, Wireless Insite, Ansys System Toolkit (STK), Multisim, Blender
Language: English (Professional working proficiency), Chinese (Native proficiency)

AWARDS

ACM MobiCom 2024 Student Research Competition 3rd Place (Graduate Track), Nov 2024
UT Austin Professional Development Award twice in Summer 2024 & Fall 2024
NSF Student Travel Grant for MobiHoc 2023 Sep 2023
Outstanding Graduates Award, UESTC (548/5502, 9.96%) Jun 2018
The Second Class of the People's Scholarship, UESTC trice in Sep 2015, 2016 and 2017
Student Leadership Scholarship, UESTC Sep 2016

SERVICES

ACM MobiCom S^3 Workshop 2023 Technical Program Committee.
USENIX NSDI 2025 Pre-Review Task Force.

President Jun 2016 – Jun 2017
Student Association Union of University of Electronic Science and Technology of China