SHUONING ZHANG

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EDUCATION

University of Science and Technology of China(USTC) **Anhui, China**
Applied Mathematics, Minor in Computer Science 2022 - 2024
• Overall GPA: 3.92/4.3 Rank: **19th/181** (Among all students majoring in mathematics at USTC)

HONORS

• Zhang Zongzhi Sci-Tech Scholarship 2023
• Outstanding Student Scholarship, Grade 2 2024
• The Chinese Mathematics Competitions, 1st prize in Anhui Province 2024

RESEARCH INTERESTS

Network Optimization, Algorithm, Deep learning

PUBLICATIONS

On the TPE Design to Efficiently Accelerate Hitless Reconfiguration of OCS-Based DCNs
Authors: Qian Lv, Yuxiao Zhang, **Shuoning Zhang**, Ruoxing Li; Ke Meng, Bowen Zhang, Fuguang Huang; Xiaoliang Chen; Zuqing Zhu *IEEE JSAC Special Issue on Next-Generation Optical Communications and Networking*, Accepted, 2024.

DRL-TPE:Learning to Optimize TPE of Optical Interconnects to Accelerate Hitless Reconfigurations OCS-Based DCNs
Authors: Xiaoliang Chen, Wenbang Zheng, **Shuoning Zhang**, Xiaoyan Dong, Ke Meng, Zuqing Zhu Chen; Zuqing Zhu Accepted for Oral Presentation at the *2025 Optical Fiber Communications Conference(OFC 2025)*

RESEARCH EXPERIENCE

Research Assistant Prof Zuqing Zhu's Research Group, USTC 2023-present
•.Designed and analyzed optimization algorithms for hitless reconfiguration problem.
• Designed and implemented sophisticated simulation code to model complex systems and environments

ACADEMIC PROJECTS

Ultra-Large-Scale Optical Fiber Networks: Protection and Restoration Techniques
Advisors: **Prof. Zuqing Zhu** (School of Information Science and Technology, USTC)
- Led a team in an innovative project funded by USTC with a budget of ¥20000, focusing on the development of protection and restoration techniques for services in ultra-large-scale optical fiber networks
- Orchestrated the design and execution of experiments to assess the robustness of network architectures against different failure scenarios, contributing to the understanding of network reliability and resilience.
- Designed algorithms for optimizing network reconfiguration to expedite service restoration following disruptions, enhancing network efficiency and service continuity.

SKILLS

Programming: C, Python (Pytorch), LATEX, MATLAB

English: TOEFL: 99 (MyBestScore:102)