

Shurang Wu

Email: wu_sr@mail.ustc.edu.cn

Address: University of Science and Technology of China, No.96 Jinzhai Road, Hefei, Anhui, China

Education

University of Science and Technology of China (USTC), Hefei, Anhui, China

Sep 2021-Present

School of the Gifted Young;

Bachelor of Science in Computer Science (currently final, expected in Jul 2025);

Hua Xia Talent Program in Computer Science and Technology;

GPA (overall): 3.90/4.3 (90.29/100), GPA (core courses): 4.10/4.3, **Ranking:** 22/254(~Top 8%)

Core courses (Part):

Computer Programming A (100/100, Top 1%), Operating Systems (**Honor**) (100/100 Top 1%), Computer Networks (99/100 Top 1%), Fundamental of Artificial Intelligence (97/100), Guide to Formal Methods (96/100), Introduction to Computing Systems (96/100), Computer Organization and Design (**Honor**) (95/100), Analog and Digital Circuits (95/100), Data Structure (94/100), Advanced Programming and Practice (90/100),

Research Experiences

Research Assistant, [Lab for Data Science](#), USTC

Sep 2022-Jul 2023

Handling distribution shifts on graphs from an invariance perspective using adaptive frequency response filter

Advisor: Professor [Xiangnan He](#) (Professor of School of Data Science, USTC)

- Conducted researches on the Out-of-Distribution problem in graph learning dataset.
- Developed a frequency-based method for GNN to minimize the influence of this distribution shift in graphs.

Research Assistant, [Advanced Data Systems Laboratory](#), USTC

Sep 2023-Present

Resolve the bottleneck for distributed GNN training on large graphs

Advisor: Professor [Cheng Li](#) (Professor of Computer Science Department, USTC)

- Conducted researches and experiments on the time bottleneck of distributed GNN training.
- Help developed various delicate components to efficiently decrease data-load and communication time in distributed GNN training which achieved significant acceleration compared with DGL.

Project Experiences / Teaching Experiences

[ErisFS](#): A Comprehensive virtual filesystem for FreeRTOS. [As group leader]

Mar 2023-Jul 2023

- First comprehensive virtual filesystem for FreeRTOS:** Support multiple filesystems and storage medias through a well-designed three layer architecture.
- Extendable:** Easy to support other specific file system or storage medium without disrupting other layers.
- Adaptable:** Can be adapted to any hardware configurations with a small amount of extra code for I/O operations..

Teaching Assistant of *Computer Network*, USTC

Sep 2023-Present

- Core course for undergraduates in Computer Science Department, USTC, Fall 2023

Awards

- USTC Excellent Freshman Scholarship, Bronze, 2021.12
- USTC Excellent Student Scholarship, Bronze, 2022.12
- USTC Talent Program Scholarship, Grade B, 2022.12
- USTC Yu Qing Software Develop Competition, Silver, 2023.11
- USTC Excellent Student Scholarship, Silver, 2023.12
- USTC Talent Program Scholarship, Grade A, 2023.12

Skills

- (Natural) Language Fluency:** GRE 327 (157V+170Q); TOEFL iBT 98 (28R+24L+22S+24W), JLPT N1
- Language Skills:** x86 ASM, C/C++, CUDA, JavaScript/TypeScript, Python, Rust, Swift, LATEX, Pascal.
- Mathematics:** Abstract Algebra, Mathematical Logic, Graph Theory, Calculus, Complex Analysis, Linear Algebra, Probability Theory, Stochastic Processes.