

Hongxu Chen

hongxuchen@mail.ustc.edu.cn | Personal Web

ustcchx | Daxuxu36

Hefei, Anhui - China

EDUCATION

- **B.S., School of the Gifted Young, University of Science and Technology of China** *Sep. 2021 - Present*
 - Major: Data Science GPA: 3.53/4.30 (86.06/100) Ranking: 22/53
 - Core Courses: Mathematical Analysis B1 & B2 (92/100), Linear Algebra (94/100), Fundamentals of Algebra (95/100), Deep Learning (94/100), Data Structures (93/100), Big Data Algorithms (92/100).

RESEARCH & PROJECT EXPERIENCE

- **Research Internship with LONG Group, CSE, HKUST** *Jul. 2024 - Dec. 2024*
 - Developed an optimization-based algorithm for merging Low-Rank Adaptations (LoRAs), surpassing state-of-the-art methods (e.g., RegMean) in multi-task applications across various domains. **Manuscript submitted to CVPR 2025, first author.** [Paper][Slides]
 - Proposed an efficient side-tuning method with reduced parameters, memory consumption, and improved robustness compared to existing baselines (e.g., UniPT). [Slides]
- **Working at LUNA Team, CSE, USTC** *May. 2023 - Present*
 - Responsible for the educational resource analysis module at LUNA AILab.
 - Participated in the USTC graduate thesis review, responsible for coding to validate document formatting.
- **Curriculum Project** *Sep. 2021 - Present*
 - Released the ShopConcept dataset, covering multiple shopping concepts, developed a shopping agent by performing pre-post training and LoRA fine-tuning on Yi-9B. [Codes][Dataset]
 - Developed a database management system for recording video game data and user profiles. [Codes]

LEADERSHIP & ACTIVITIES

- **Mathematics Olympiad Coach, Hefei No. 6 High School** *Sep. 2023 - Feb. 2024*
 - Taught elementary number theory and algebra.
- **Member of USTC Calligraphy and Painting Club** *Sep. 2021 - Present*
 - Actively participated in club activities and volunteered regularly.

HONORS & AWARDS

- Second Prize, 13th Chinese Mathematics Competition
- Second Prize, 35th Chinese High School Mathematics League
- First Prize, 5th Campus Calligraphy and Painting Competition

SKILLS

- **Programming Languages:** Python, C/C++, SQL, Matlab, Verilog.
- **Machine Learning & Deep Learning:** PyTorch, Pandas, NumPy, Scikit-learn, Transformers, PEFT.
- **Database Systems:** MySQL (MySQL Workbench).
- **Other Skills:** Music composition (FL Studio), Calligraphy, Painting.