Wuqiang Zheng

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Education

University of Science and Technology of China (USTC) *Sep 2022 –Present*

B.S. in Data Science

- GPA: **3.85**/4.30 | Average Score: **90.1**/100
- Selected Courses: Artificial Intelligence (100), Deep Learning (95), Machine Learning (93), Mathematical Analysis (97), Numerical Algebra (95), Mathematical Equation (100), Stochastic Process (97)

Research Interests

My research interests focus on **advancing the training of Large Language Models (LLMs)** with an emphasis on improving understanding, reasoning, and generation, with three interconnected technical dimensions:

- Data: methodologies for constructing, acquiring, and filtering high-quality training data to maximize the efficacy of model training.
- Algorithm: designing stable and efficient training algorithms that adapt to diverse task characteristics, ensuring robust model performance across scenarios.
- Training Paradigm: developing innovative, high-performance paradigms (e.g., enabling models to learn from interaction with humans/environments, test-time dynamic learning) to bridge the gap between general pre-training and real-world downstream task demands.

Publications

Navigating Through Paper Flood: Advancing LLM-based Paper Evaluation through Domain-Aware Retrieval and Latent Reasoning

Wuqiang Zheng, Yiyan Xu, Xinyu Lin, Chongming Gao, Wenjie Wang, Fuli Feng

Submitted to The 40th Annual AAAI Conference on Artificial Intelligence (AAAI 2026) (**Oral Presentation**)

DRC: Enhancing Personalized Image Generation via Disentangled Representation Composition

Yiyan Xu, ***Wuqiang Zheng***, Wenjie Wang, Fengbin Zhu, Xinting Hu, Yang Zhang, Fuli Feng, Tat-Seng Chua

2025 ACM International Conference on Multimedia (ACM MM 2025) (**Oral Presentation**)

AutoStat: DSL-based Automated Statistical Modeling from Natural Language

Wuqiang Zheng, Zhiyang Dou, Minghao Guo, Benjamin Tod Jones, Wojciech Matusik

Under Review

MIND: Market Interpretation DSL for Unified Market Design and Simulation

Zhicheng Yang, Peihang Li, ***Wuqiang Zheng***, Zhiyang Dou, Minghao Guo, Benjamin Tod Jones, Wojciech Matusik

Under Review

Reserach Experience

LLM-Driven System for Statistical Modeling & Market Design **CSAIL@MIT**

Adivisor: Prof. Wojciech Matusik (MIT) *Jun 2025 - Present*

- To address the lack of tools integrating statistical modeling and market capabilities, we train a full LLM system to enable seamless transitions from natural language to statistical modeling/market interpretation, plus automated execution for results.
- I **independently led** statistical modeling tasks and **submitted a paper as the first author**. Meanwhile, I participated in market-related tasks and **contributed to the submission of a paper**.

Capability Enhancement of Large Models **LDS@USTC**

Adivisors: Prof. Wenjie Wang, Fuli Feng (USTC) *Aug 2024 - Present*

- To address the difficulty of personalized multimodal generation, we design a disentanglement strategy and a corresponding two-stage training paradigm—comprising disentanglement learning and personalized modeling—to enable LMMs to capture the personalized features of multimodal content.
- To enhance LLMs' paper evaluation capabilities, we leverage the latent reasoning paradigm and design a stepwise optimization training method, enabling LLMs to achieve a new SOTA in paper evaluation.
- **Submitted 2 papers as first author and second author to top-tier conferences.**

Projects

PaperRec: Building Reliable Academic Paper Recommendation System Based on Large Language Models *Mar 2025 - Present*

Adivisors: Prof. Wenjie Wang, Fuli Feng (USTC)

- Designed and implemented an LLM-based framework for high-accuracy academic paper evaluation, achieving state-of-the-art performance on various benchmark datasets. Based on the framework, I developed an academic literature framework incorporating paper retrieval, filtering, and LLM-based survey generation.
- This system powers our WeChat public account "智荐阁" (Zhijian Ge), which **gained 8,000+ followers within six months, with multiple posts achieving 10,000+ views**, demonstrating strong community engagement and knowledge dissemination impact.
- I **independently led the entire process**, from conceptualizing the design and building the complete pipeline to managing the operation of the WeChat public account, and finally submitted our paper.

Awards

National Scholarship (Top 2%) *2025*

USTC Outstanding Student Scholarship *2023, 2024*

USTC Outstanding Freshmen Scholarship *2022*

Teaching Assistant

Artificial Intelligence & Machine Learning(Fall 2025) *Sep 2025 - Present*

Artificial Intelligence (Spring 2025) *Mar 2025 - Jul 2025*

Stochastic Process - B (Fall 2024) *Sep 2024 - Jan 2025*