



Yuxuan Wang

Undergraduate, Grade 2022
School of Computer Science and Technology
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BILLYisAVAILABLE

Google Scholar

EDUCATION

- Beijing Institute of Technology** 2022.9-2026.6(Expected)
Undergraduate, Computer Science (Elite Class) GPA: 94.18/3.91, RANK:1/130

EXPERIENCE

- Tencent Youtu Lab** 2025.5-Present
Research Intern (Advisor: Junrn Lu) Tencent
– Currently working on model structure compression.
- GraphPKU** 2024.11-Present
Research Intern (Advisor: Muhan Zhang) Peking University
– Currently working on model structure compression and LLM long context.
- AGT Lab** 2024.2-2024.8
Research Intern (Advisor: Zhengyang Liu) Beijing Institute of Technology
– Participated in a research project on algorithmic game theory.
- MLMR Lab** 2022.9-2023.8
Research Assistant (Advisor: Xiabi Liu) Beijing Institute of Technology
– Participated in the design and development of an AI-based visual programming platform.

PUBLICATIONS

- Approximating EFX through a New Notion of Fairness** 2024.8
Rui Dai, **Yuxuan Wang**, Zhengyang Liu, Zihe Wang, TAMC 2025
- Chinese Parataxis Graph Parsing Based on Large Language Models** 2024.5
Yueyi Sun*, **Yuxuan Wang***, Proceedings of the 23rd Chinese National Conference on Computational Linguistics

PROJECTS

- Model Acceleration and Long-Context Understanding via KV Cache Compression** 2025.3 - Present
Model Compression Advisor: Muhan Zhang
– To develop a novel pipeline to improve attention recovery quality under a fixed compression ratio.
– To mitigate the impact of positional encoding on the rationality of pruning decisions.
– To minimize inference latency through cache-optimized design.
- LooGLE V2: Are Long-Context Models Ready for Long-Dependency Challenges?** 2025.1 - Present
LLM Benchmark Advisor: Muhan Zhang
– Constructed a novel benchmark to evaluate the long-context understanding capability of LLMs.
– Achieved significant advancements in context length, long-dependency, real-world alignment, and evaluation automation.
– NeurIPS 2025 under review.
- Chinese Parataxis Graph Parsing Based on Large Language Models** 2024.4 - 2024.7
LLM Fine-tuning and Ensemble Learning Advisor: Xin Xin
– Achieved the construction of a *Chinese Parataxis Graph* using two primary methods:
 - * Hyperparameter tuning of *large language models*.
 - * *Ensemble learning* with multiple large language models.– Both methods resulted in high *F1* scores.
– Presented an oral report on this work at the evaluation session forum of the 23rd *China National Conference on Computational Linguistics (CCL)*.

- **Approximating EFX through a New Notion of Fairness** 2024.2 - 2024.8
Algorithm Game Theory Advisor: Zhengyang Liu
 - Focused on the classic *Envy-Free (EF)* problem, which is closely associated with *Nash Equilibrium* in game theory.
 - Proposed an innovative metric to measure *fair allocation*.
 - Developed novel models aimed at achieving a more precise approximation of *EFX*.
 - Published a arxiv preprint paper.
- **ROD: A Retinex-Based Object Detection Method** 2024.9 - 2025.1
(Course Project) Digital Image Processing Advisor: Ying Fu
 - Achieved better results for a low-light enhancement method through hyperparameter tuning.
 - Developed a novel method for target detection in low-light environments.
 - Built a software system and applied for a software copyright.
- **Research on Intelligent Recognition Technology for Non-Meteorological Targets** 2024.5 - 2024.8
Feature Recognition Advisor: Liang Zeng
 - This project primarily focuses on identifying non-meteorological elements in *millimeter-wave cloud radar* data using *machine learning* methods.
 - Conducted the work independently, applying *clustering algorithms* to group specific features of *atmospheric wave matrices*.
 - Achieved effective recognition results through clustering methods.
 - Successfully passed the initial evaluation of *the 23rd Research Institute of the Second Academy of China Aerospace Science and Industry Corporation (CASIC)*.
- **AiXLab AI Geometric Coding Platform** 2022.9 - 2023.8
An Engineering-Based Project Advisor: Xiabi Liu
 - Developed a graphical interface with integrated multilayer *neural networks*.
 - Contributed by refactoring and extending core neural network code.
 - Participated in system-level design and programming tasks for the overall platform.
 - A utility model patent has been filed for this project.

AWARDS

- **National Scholarship** Ministry of Education of the People's Republic of China 2024.10
- **National Scholarship** Ministry of Education of the People's Republic of China 2023.10
- **First-Class Academic Scholarship** Beijing Institute of Technology, 2025.3
- **First-Class Academic Scholarship** Beijing Institute of Technology, 2024.9
- **First-Class Academic Scholarship** Beijing Institute of Technology, 2024.3
- **First-Class Academic Scholarship** Beijing Institute of Technology, 2023.9
- **First-Class Academic Scholarship** Beijing Institute of Technology, 2023.3
- **First Prize in the National College Mathematics Competition** Chinese Mathematical Society 2023.4
- **1st Place in BIT Mathematics Competition** Beijing Institute of Technology 2022.10
- **First Prize in the National High School Mathematics League** Chinese Mathematical Society 2021.9
- **First Prize in the National High School Mathematics League** Chinese Mathematical Society 2020.9
- **First Prize in the National High School Mathematics League** Chinese Mathematical Society 2019.9

INTERESTS

- Model Compression
- Large Language Model

SKILLS

- **Coding** C, C++, Python, L^AT_EX
- **English** CET-4: 643, CET-6: 633

COURSES

Mathematical Analysis I/II, 96/94
 Linear Algebra, 100
 Probability Theory and Mathematical Statistics, 97
 Discrete Mathematics, 99
 Data Structures and Algorithms, 95
 Knowledge Engineering, 100
 Algorithmic Game Theory, 96
 Combinatorial Mathematics, 97