

# JINXIANG XIE

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## 🎓 EDUCATION

### Beijing Jiaotong University

2021.09 ~ 2025.06

- Bachelor of Science - Information and Computing Science

## 📖 PUBLICATIONS

DSGram: Dynamic Weighting Sub-Metrics for Grammatical Error Correction in the Era of Large Language Models.

- In The 39th Annual AAAI Conference on Artificial Intelligence (AAAI 2025)
- **Jinxiang Xie**, Yilin Li, Xunjian Yin, Xiaojun Wan.

## 🏢 INTERNSHIP EXPERIENCE

### Research Intern, Microsoft

2024.08 ~ 2025.02

Mentor: Justin Ding

Beijing, China

- Designed innovative metrics using Kendall  $\tau$  and LLMs to evaluate Excel Copilot's stability, achieving up to a **21.5%** improvement in stability through Algorithmic Prompting (AP) and Thinking before Speaking (TbS).
- Independently developed an **Agent workflow generation framework**, successfully deployed for a Fortune Global 500 client, and authored a technical report on Copilot's text analysis capabilities.
- Designed a new **prompt engineering paradigm**, improving LLM output quality by **13%** while accelerating response speed by **56%** through intermediate reasoning paths and a compact JSON Schema.

### Research Intern, Peking University

2023.11 ~ 2024.07

Supervisor: Xiaojun Wan

Beijing, China

- Pioneered the DSGram dynamic context-aware evaluation framework, addressing redundancy issues among sub-metrics and reducing Pearson correlation relativity by **25.3×**.
- Constructed two new datasets: DSGram-Eval and DSGram-LLMs. Fine-tuned a lightweight, cost-efficient model on these datasets, improving LLaMA's performance on the task by **24.84%**.
- Proposed a dynamic weighting generation method, integrating LLMs with the Analytic Hierarchy Process (AHP) to generate customized weights, achieving a **92.7%** agreement with human evaluation on public SEEDA datasets, establishing a new state-of-the-art (**SOTA**). The work was published at AAAI as first author.

### Summer Workshop Student, National University of Singapore

2023.05 ~ 2023.07

Mentor: Colin Tan

Singapore




- Annotated a dataset, trained a YOLO-v7 model for recognizing cat breeds and integrated the model into a robot.
- Designed and implemented a robot capable of autonomous navigation and feeding using ArUco code recognition.

### Research Training Program, Beijing Jiaotong University

2023.04 ~ 2024.04

Explored prompt engineering techniques on lightweight LLMs. Fine-tuned LLMs tailored to specific industries.

## 🛠 SKILLS

- **Programming:** Python: , C++: , LaTeX: 
- **English Proficiency:** IELTS band 7, CET-6 score of 601
- **Mathematics:** Advanced Algebra, Probability Theory, Optimization Theory and Algorithms
- **AI:** Large Language Models (Prompt Engineering, RAG, Fine-Tuning), Natural Language Processing
- **Data Science:** Pandas, Numpy, Matplotlib, scikit-learn

## 🏆 AWARDS

- **Honorable Mention** of 2024 Mathematical Contest In Modeling
- **First Prize** of 2023 BJTU-Hollysys Science and Technology Innovation Cup Competition
- **Second Prize** of 2024 National College Student Innovation and Entrepreneurship Competition in Beijing

## ✳ EXTRACURRICULAR ACTIVITIES

### Microsoft Learn Student Ambassador, Microsoft

2024.01 ~ 2025.02

Launched an AI Project to simplify the invoicing process using Retrieval Augmented Generation (RAG), sponsored by Microsoft for Startup Hub with more than **\$5000**.

### Executive Chairman of Student Chapter, Beijing Jiaotong University

2023.05 ~ 2024.06

The summer social practice team lead by me was awarded by the Beijing Municipal Government.