

# JINYUAN LI

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## EDUCATION

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**MSc Tianjin University** Tianjin, China 📍

📅 Sept 2022 ▶ Jan 2025 (Expected)

Major in Computer Technology

I am being mentored by Professor [Gang Pan](#), specializing in the field of **Multimodal Learning**.

**B.S. Taiyuan University of Technology** (211 Project) Taiyuan, China 📍

📅 Sept 2018 ▶ Jul 2022

Major in Information and Computing Science; **GPA: 90.53/100; Major GPA: 93.64/100**

Courses: Advanced Algebra (100), Numerical Analysis (98), Probability Theory (96), Mathematical Analysis (93), Fuzzy Mathematics (93), Operating System (97), High Performance Computing (96), Data Structures (92)

## PUBLICATIONS

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1. [LLMs as Bridges: Reformulating Grounded Multimodal Named Entity Recognition](#).

Findings of the Association for Computational Linguistics: **ACL 2024**

[Jinyuan Li](#), Han Li, Di Sun, Jiahao Wang, Wenkun Zhang, Zan Wang, Gang Pan

- Reformulating GMNER task at the macro level and unifying Visual Grounding and Entity Grounding.
- All 14 variants of RiVEG achieve new SoTA performance on the Twitter-GMNER dataset.

Code: <https://github.com/JinYuanLi0012/RiVEG>

2. [Prompting ChatGPT in MNER: Enhanced Multimodal Named Entity Recognition with Auxiliary Refined Knowledge](#). Findings of the Association for Computational Linguistics: **EMNLP 2023**

[Jinyuan Li](#), Han Li, Zhuo Pan, Di Sun, Jiahao Wang, Wenkun Zhang, Gang Pan

- Activating the potential of large language models in Multimodal Named Entity Recognition.
- SoTA results on Twitter-2015 and Twitter-2017 datasets and stronger generalization capability.

Code: <https://github.com/JinYuanLi0012/PGIM>

3. [Advancing Grounded Multimodal Named Entity Recognition via LLM-Based Reformulation and Refined Knowledge Box-Based Segmentation](#). Under review by **IEEE Transactions on Multimedia**

[Jinyuan Li](#), Ziyang Li, Han Li, Jianfei Yu, Rui Xia, Di Sun, Gang Pan

- Proposing new SMNER task and constructing corresponding Twitter-SMNER dataset.
- Demonstrating the feasibility of using box prompt-based SAM to empower any GMNER model with the ability to accomplish the SMNER task.

Code: <https://github.com/JinYuanLi0012/RiVEG>

4. [CATN: A Context-Aggregated Transformer Network for Blind Image Inpainting](#).

Under review by **ACM Multimedia 2024**

Jiahao Wang, [Jinyuan Li](#), Gang Pan, Di Sun, Jiawan Zhang

- Contributing to dataset construction, article writing, and revision as a collaborator.

5. [DSTFuse: Enhancing Deblurring via Style Transfer for Visible and Infrared Image Fusion](#).

Submitted to **WACV 2025**

Yonglu Liu, Gang Pan, Zhenjun Han, Di Sun, [Jinyuan Li](#), Jiahao Wang

- Independently guiding a junior student to complete a full-process research from scratch.

## WORK EXPERIENCE

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## Research Intern

Baidu, Beijing 📍

📅 Apr 2024 ▶ Now

Participate in research and development of [PaddleOCR](#):

- Exploring the potential of multimodal vision-language models for visual document understanding.

## AWARDS AND HONORS

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| <b>Second-class Academic Scholarship of Tianjin University</b>                                   | 📅 2022 & 2023 |
| <b>Outstanding Students of Taiyuan University of Technology (Top 2%)</b>                         | 📅 2021        |
| <b>Provincial Second Prize in the National College Student Mathematical Modeling Competition</b> | 📅 2020        |
| <b>Academic Excellence Scholarship of Taiyuan University of Technology</b>                       | 📅 2019 & 2020 |
| <b>Outstanding Student Cadre of Taiyuan University of Technology</b>                             | 📅 2018        |

## SERVICE

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**Reviewer:** ACL 2024, ACM MM 2024, EMNLP 2024, ACL ARR 2024, IEEE TMM, Pattern Recognition

**Teaching Assistant:** Advanced Computer Vision (Postgraduate), Tianjin University, Fall 2023