

JINYUAN LI (李金源)

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EDUCATION

MSc Tianjin University

📅 Sept 2022 ▶ Jan 2025 (Expected)

Major in Computer Technology

Advisor: Prof. [Gang Pan](#)

Research Topics: Multimodal Learning / Computer Vision / Natural Language Processing

B.S. Taiyuan University of Technology (211 Project)

📅 Sept 2018 ▶ Jul 2022

Major in Applied Mathematics (First Year) & Information and Computing Science (Subsequent Years)

Major GPA: 93.6/100; GPA: 90.5/100

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), etc.

RESEARCH EXPERIENCE

Publications

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

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

- 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.

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

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

- 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.

Preprints

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

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

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

- 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.

2. [AFAN: An Attention-Driven Forgery Adversarial Network for Blind Image Inpainting](#).

Under review by **IEEE Transactions on Multimedia**

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

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

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

Under review by **WACV 2025**

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

- Guiding a junior student to complete a full-process research.

WORK EXPERIENCE

Research Intern

Baidu OCR Team, Beijing 📍

📅 Apr 2024 ▶ Jun 2024

Participate in research and development of [PaddleOCR](#) (With 42K+ stars on GitHub):

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

AWARDS AND HONORS

Excellent Students of Tianjin University (Top 5%)	📅 2024
Second-class Academic Scholarship of Tianjin University	📅 2022 & 2023
Excellent Students of Taiyuan University of Technology (Top 2%)	📅 2021
Academic Excellence Scholarship of Taiyuan University of Technology	📅 2020 & 2021
Provincial Second Prize in the National College Student Mathematical Modeling Competition	📅 2020
Excellent Academic Progress Student of Taiyuan University of Technology	📅 2020
Outstanding Student Cadre of Taiyuan University of Technology	📅 2019

SERVICE

Reviewer: ACL 2024, EMNLP 2024, NAACL 2024, ACL ARR 2024, ACM MM 2024, WACV 2025, PR, TMM

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