

JUNRU LU

Natural Language Processing Enthusiast

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EDUCATION

Ph.D. candidate in Computer Science

University of Warwick

📅 Nov. 2019 – Mar. 2024

📍 Coventry, UK

- Supervisor: Prof. Yulan He

M.S. in Applied Urban Science & Informatics

New York University

📅 Sept. 2018 – Sept. 2019

📍 New York City, USA

Double Bachelor of Economics

Peking University

📅 Sept. 2015 – July 2018

📍 Beijing, China

B.Eng. in Information Management and Information System

University of International Relations

📅 Sept. 2014 – July 2018

📍 Beijing, China

- Supervisor: Prof. Binyang Li

CAREER

NLP Algorithm Research, YouTu Lab

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📅 May 2023 – present

📍 Shanghai, China

- Project1: Memory-enhanced LLM under Long-Range Conversation[Codes].
- Project2: LLM-based Automatic Prompt Optimization[Codes].
- Project3: Length-debiased Preference Optimization on LLM[Codes].

AI Algorithm Research Internship, Dept. of AI platform

Bilibili Group

📅 Nov. 2022 – Apr. 2023

📍 Shanghai, China

- Project1: Implement Efficient Conformer module inside WeNet.
- Project2: Text Segmentation module for ASR Post-processing.
- Project3: Speech pretraining based on Data2Vec2.

NLP Engineer Internship

Beijing iDeepWise Artificial Intelligence Tech Ltd

📅 Mar. 2018 – June 2018

📍 Beijing, China

- Project1: Research on TextCNN and Siamese-LSTM for sentence similarity.
- Project2: Implement a two-stage BiDAF model on Dureader Dataset.

Data Mining Engineer Internship, Dept. of Text Mining

Beijing Baifendian InfoTech Ltd

📅 Oct. 2017 – Mar. 2018

📍 Beijing, China

- Project: Develop a single-round Community-based QA System [Codes].

ACADEMIA

- Full paper list: Google Scholar
- Reviewer: ACL, EMNLP, EACL
- Teaching Assistant:
 - CS331 Neural Computing (2019 - 2022)
 - CS918 Natural Language Processing (2022)

PUBLICATIONS

- Wenhao Liu et al. (2024). "Tell Me What You Don't Know: Enhancing Refusal Capabilities of Role-Playing Agents via Representation Space Analysis and Editing". In: *arXiv preprint arXiv:2409.16913*
- Junru Lu, Jiazheng Li, Siyu An, et al. (2024). "Eliminating Biased Length Reliance of Direct Preference Optimization via Down-Sampled KL Divergence". In: *EMNLP 2024*
- Siyu An et al. (2024). "FinVerse: An Autonomous Agent System for Versatile Financial Analysis". In: <https://arxiv.org/abs/2406.06379>
- Yixuan Yang et al. (2024). "LLplace: The 3D Indoor Scene Layout Generation and Editing via Large Language Model". In: <https://arxiv.org/abs/2406.03866>
- Junru Lu, Siyu An, Min Zhang, et al. (2024). "FIPO: Free-form Instruction-oriented Prompt Optimization with Preference Dataset and Modular Fine-tuning Schema". In: <https://arxiv.org/abs/2402.11811>
- Guodong Shen et al. (2024). "Advancing Video Anomaly Detection: A Bi-Directional Hybrid Framework for Enhanced Single- and Multi-Task Approaches". In: *Transactions on Image Processing*
- Junru Lu, Siyu An, Mingbao Lin, et al. (2023). "MemoChat: Tuning LLMs to Use On-the-fly Text Memos for Consistent Long-Range Conversations". In: <https://arxiv.org/abs/2308.08239>
- Junru Lu, Gabriele Pergola, et al. (2023). "Event Knowledge Incorporation with Posterior Regularization for Event-Centric Question Answering". In: *arXiv preprint arXiv:2305.04522*
- Junru Lu, Jiazheng Li, Pergola Gabriele, et al. (2022). "NapSS: Paragraph-level Medical Text Simplification via Narrative Prompting and Sentence-matching Summarization". In: *EACL 2023*
- Junru Lu, Xingwei Tan, et al. (2022). "Event-Centric Question Answering via Contrastive Learning and Invertible Event Transformation". In: *EMNLP 2022*
- Junru Lu, Pergola Gabriele, et al. (2020). "Chime: Cross-passage Hierarchical Memory Network for Generative Review Question Answering". In: *COLING 2020*