JUNRU LU

Natural Language Processing Enthusiast

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EDUCATION

Ph.D. in Computer Science
University of Warwick
📅 Nov. 2019 – June 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
Tecent
📅 May 2023 – precent   📍 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. (2025). "FIPO: Free-form Instruction-oriented Prompt Optimization with Preference Dataset and Modular Fine-tuning Schema". In: *COLING 2025*
- 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*