

# JUNRU LU

## Natural Language Processing Enthusiast

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LuJunru

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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

## INTERNSHIP

### NLP Algorithm Research Internship, YouTu Lab

#### Tecent

May 2023 – present

Shanghai, China

- Project1:** API tool capability of LLM in travel field
- Project2:** Memory-enhanced LLM under Long-Range Conversation
- Project3:** Standard product development of Preference Optimization on LLM

### 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

- Junru Lu, Jiazheng Li, Siyu An, et al. (2024). "Eliminating Biased Length Reliance of Direct Preference Optimization via Down-Sampled KL Divergence". In: *arXiv preprint arXiv:2406.10957*
- 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>
- 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*
- Junjie Cai et al. (2020). "Estimating the effect of Uber & Lyft on parking violation in NYC". in: *Transportation Research Board Annual Meeting*
- Junru Lu, Le Chen, et al. (2019). "Identifying User Profile by Incorporating Self-Attention Mechanism based on CSDN Data Set". In: *Data Intelligence 1.2*, pp. 160–175