

YUCHENG LI

+44 07826682441
<https://liyucheng09.github.io/>

yucheng.li@surrey.ac.uk
github.com/liyucheng09

Bio

I am doing a PhD on Natural Language Processing (NLP) at the **University of Surrey**, co-affiliated with the NLP group of **University of Manchester**, supervised by Dr. Frank Guerin and Prof. Chenghua Lin. My research mainly focuses on language generation, and more recently efficient LLMs, and model evaluation. My research gained **450+ stars on GitHub**, and my open-sourced models were downloaded more than **220,000 time on huggingface.co**. My recent projects are used in Microsoft, Google DeepMind and Huawei. I was a research intern in Tencent, Shanghai at 2021, where I focused on product review processing and synthesis.

Education

University of Surrey <i>PhD Student in Computer Science,</i>	Jul 2021 – Jul 2025 (expected)
East China Normal University <i>Master in Computer Science, GPA: 3.50/4.00</i>	Sep 2018 – Jul 2021
Shanghai Normal University <i>Bachelor in Computer Science, GPA: 3.50/4.00, Rank: 2/53</i>	Sep 2014 – Jul 2018

Experience

Efficient Large Language Model Inference **Jul 2023– Present**
PhD Projects *UK*

- Proposed the prompt compression approach that allows large language models process 2x more context, and reduces GPU cost by up to 65%. Link (150+ stars): github.com/liyucheng09/Selective_Context
- This technique is widely used in the community, such as Microsoft LLMingua (2500+ stars) and Llama-index.
- Skills: Python, C++, Large Language Models, Efficient Inference Techniques.

Robust Large Language Model Evaluation **Jul 2023– Present**
PhD Projects *UK*

- Addressing data contamination in model evaluation, and developed robustness one-time exams for LLMs.
- The de-contamination technique is widely used in the community, such as Huawei and Opencompass (2000+ stars). Other contributions are cited by Google, Berkeley etc. Link: github.com/liyucheng09/Contamination_Detector.
- Skills: Large Language Model, Evaluation, Robustness.

Product Review Synthesis **Mar 2021– Jul 2021**
Research Intern - Tencent *Shanghai*

- Generating user-friendly, human-like product reviews from brief customer feedback questionnaires.
- Addressed low feedback rates on e-commerce platforms, improving customer engagement.
- Skills: Python, C++, PyTorch, Generative Models.

Product Review Analysis **Jan 2021– Mar 2021**
Research Intern - Tencent *Shanghai*

- Developed a system for processing product reviews, extracting aspect-oriented sentiment information.
- Integrated into Tencent's e-commerce platform, serving approximately 2 million active users monthly.
- Skills: Python, Keras, Ray for Distributed Deployment.

Publications

- LatestEval: Addressing Data Contamination in Language Model Evaluation through Dynamic and Time-Sensitive Test Construction
Yucheng Li, Frank Guerin and Chenghua Lin; **AAAI 2024**
- Compressing Context to Enhance Inference Efficiency of Large Language Models
Yucheng Li, Bo Dong, Chenghua Lin and Frank Guerin; **EMNLP 2023**

3. Metaphor Detection via Explicit Basic Meanings Modelling
Yucheng Li, Shun Wang, Chenghua Lin and Frank Guerin; **ACL 2023**
4. Metaphor Detection with Effective Context Denoising
Shun Wang, **Yucheng Li**, Chenghua Lin, Frank Guerin and Loïc Barrault; **EACL 2023**
5. FrameBERT: Conceptual Metaphor Detection with Frame Embedding Learning
Yucheng Li, Shun Wang, Chenghua Lin, Frank Guerin and Loïc Barrault; **EACL 2023**
6. The Secret of Metaphor on Expressing Stronger Emotion
Yucheng Li, Frank Guerin and Chenghua Lin; **Figlang@EMNLP 2022**
7. CM-Gen: A Neural Framework for Chinese Metaphor Generation with Explicit Context Modelling
Yucheng Li, Frank Guerin and Chenghua Lin; **COLING 2022**
8. Nominal Metaphor Generation with Multitask Learning
Yucheng Li, Frank Guerin and Chenghua Lin; **INLG 2022**
9. An Argument Extraction Decoder in Open Information Extraction
Yucheng Li, Yan Yang, Qinmin Hu, Chengcai Chen and Liang He; **ECIR 2021**