Jianing Wang

Ph.D Student · Artificial Intelligence

Shanghai, China

□ +86 193 7057 8848 | **☑** Email: lygwjn@126.com, WeChat: lygwjn | **☆** wjn1996.github.io | Updated: 23-10-08

Education	
East China Normal University (ECNU) PH.D IN DATA SCIENCE AND ENGINEERING Research Interests: Language Modeling, Few-shot Learning, Information Extraction, Question	Shanghai, China September 2019 - June 2024 Answering
Jiangsu University of Science and Technology (JUST) BENG IN SOFTWARE ENGINEERING GPA: 4.05/5.0, Top 3% • Curriculum: Operating System, Data Science, Machine Learning, Database, Java Web, etc.	Soochow, China September 2015 - June 2019
Research and Work Experience	
Computer Science and Engineering, University of California, San Diego Advisor: Dr. Julian McAuley • Visiting Scholar: Large Language Model, Personalized Learning	San Diego, USA October 2023 - February 2024
ECNU - Alibaba Group, Platform of Al, Cooperation Co-Advisors: Dr. Chengyu Wang and Dr. Minghui Qiu AlR Intern: Large Language Model, Prompt-tuning, Few-shot Learning	Hangzhou, China March 2021 - February 2023
Ant Group, Insurance Technology Research ADVISOR: DR. HONGBING WANG Research Intern: Chinese Spelling Correction, Knowledge-enhanced Language Model	Shanghai, China June 2021 - August 2022
School of Data Science and Engineering, East China Normal University Co-Advisors: Prof. Ming Gao, Prof. Xiang Li and Prof. Yunshi Lan • Ph.D Research: Knowledge Graph, Information Extraction, Question Answering, Code Represe	Shanghai, China September 2019 - June 2024 ntations
Teaching Experience	
2022 Teaching Assistant, Algorithm Foundations for Data Science and Engineering Instructed by Prof. Ming Gao, School of Data Science and Engineering, ECNU	
2022 Teaching Assistant, Data Middle Platform Instructed by Prof. Cen Chen, School of Data Science and Engineering, ECNU	
Honors and Awards	
2023 Artificial Intelligence World Innovations, The 6th Place, WAIC Conference PromptCBLU Benchmarks, The 9th Place, PromptCBLUE	RMB 6,000
2022 Artificial Intelligence World Innovations, The 2nd Place, WAIC Conference CLUE Benchmarks Version 1.1, The 15th Place, CLUE "Huaxin" Enterprise Scholarship, East China Normal University	RMB 20,000 RMB 15,000
2021 Outstanding Student, East China Normal University "Huaxin" Enterprise Scholarship, East China Normal University	RMB 15,000
2020 Second Prize , The 17th China Post-Graduate Mathematical Contest in Modelin	ıg

Projects

2023 - 2023 Ant Medical LLM,

Supported by Ant Group, Ant LLM is a large language model in Ant Group. We build a medical LLM based on Ant LLM in a pipeline of continual pre-training, knowledge injection, instruction-tuning SFT, RLHF, and hallucination alleviation.

2022 - 2023 EasyNLP Open-source Toolkit, [GitHub] [Paper]

Supported by Alibaba Group through Alibaba Innovative Research Program, EasyNLP is an easy-to-use NLP development and application toolkit in PyTorch, first released inside Alibaba in 2021. It is built with scalable distributed training strategies and supports a comprehensive suite of NLP algorithms for various NLP applications.

2022 - 2023 HugNLP Library, [GitHub] [Paper]

supported by the National Natural Science Foundation of China, HugNLP is a novel development and application library based on HuggingFace for improving the convenience and effectiveness of NLP researchers. Researchers can use it to perform NLP experiments, such as text classification, question answering, instruction-tuning, etc.

Publications_

PUBLISHED PAPERS & PREPRINTS

(* indicate equal contribution. First Author: 10 papers, Accepted: 17 papers, Total: 21 papers. Click here to see more.)

The following are 17 accepted publications:

- [1] **Jianing Wang**, Chengyu Wang, Jun Huang, Ming Gao and Aoying Zhou. *Uncertainty-aware Self-training for Neural Sequence Labeling*. **AAAI 2023**, Washington D.C., US. [Paper]
- [2] **Jianing Wang**, Wenkang Huang, Minghui Qiu, Qiuhui Shi, Hongbin Wang, Xiang Li and Ming Gao. *Knowledge Prompting in Pre-trained Language Model for Natural Language Understanding*. **EMNLP 2022**, Abu Dhabi, UAE. [Paper]
- [3] **Jianing Wang***, Chengyu Wang*, Minghui Qiu, Qiuhui Shi, Hongbin Wang, Jun Huang and Ming Gao. *KECP: Knowledge-Enhanced Contrastive Prompting for Few-shot Extractive Question Answering*. **EMNLP 2022**, Abu Dhabi, UAE. [Paper]
- [4] **Jianing Wang**, Chengyu Wang, Chuanqi Tan, Minghui Qiu, Songfang Huang, Jun Huang and Ming Gao. *SpanProto: A Two-stage Span-based Prototypical Network For Few-shot Named Entity Recognition*. **EMNLP 2022**, Abu Dhabi, UAE. [Paper]
- [5] **Jianing Wang***, Chengyu Wang*, Fuli Luo, Chuanqi Tan, Minghui Qiu, Fei Yang, Qiuhui Shi, Songfang Huang and Ming Gao. *Towards Unified Prompt Tuning for Few-shot Text Classification*. **Findings of EMNLP 2022**, Abu Dhabi, UAE. [Paper]
- [6] **Jianing Wang**, Nuo Chen, Qiushi Sun, Wenkang Huang, Chengyu Wang and Ming Gao. *HugNLP: A Unified and Comprehensive Library for Natural Language Processing.* **CIKM 2023 Demo**. [Paper]
- [7] **Jianing Wang**, Qiushi Sun, Nuo Chen, Chengyu Wang, Ming Gao and Jun Huang. *Uncertainty-aware Parameter-Efficient Self-training for Semi-supervised Language Understanding*. **Findings of EMNLP 2023**, Singapore.
- [8] Chengyu Wang*, **Jianing Wang***, Minghui Qiu, Jun Huang and Ming Gao. *TransPrompt: Towards an Automatic Transferable Prompting Framework for Few-shot Text Classification*. **EMNLP 2021**, Online. [Paper]
- [9] Yuanyuan Liang, **Jianing Wang**, Hanlun Zhu, Lei Wang, Yunshi Lan, Weining Qian. *Prompting Large Language Models with Chain-of-Thought for Few-Shot Knowledge Base Question Generation*. **EMNLP 2023**, Singapore.
- [10] Taolin Zhang, Junwei Dong, **Jianing Wang**, Chengyu Wang, Ang Wang, Yinghui Liu, Jun Huang, Yong Li, Xiaofeng He. *Revisiting and Advancing Chinese Natural Language Understanding with Accelerated Heterogeneous Knowledge Pretraining*. **EMNLP 2022 Industry Paper**, Abu Dhabi, UAE. [Paper]
- [11] Moming Tang, Chengyu Wang, **Jianing Wang**, Chuanqi Tan, Songfang Huang, Cen Chen and Weining Qian. *XtremeCLIP: Extremely Parameter-efficient Tuning for Low-resource Vision Language Understanding*. **Findings of ACL 2023**. [Paper]
- [12] Nuo Chen, Qiushi Sun, **Jianing Wang**, Xiang Li and Ming Gao. *Pass-Tuning: Towards Structure-Aware Parameter-Efficient Tuning for Code Representation Learning.* **Findings of EMNLP 2023**, Singapore.

- [13] Nuo Chen, Qiushi Sun, **Jianing Wang**, Xiaoli Li, Xiang Li, Ming Gao. *Evaluating and Enhancing the Robustness of Code Pre-trained Models through Structure-Aware Adversarial Samples Generation*. **Findings of EMNLP 2023**, Singapore.
- [14] Moming Tang, Chengyu Wang, **Jianing Wang**, Cen Chen, Ming Gao and Weining Qian. *ParaSum: Contrastive Paraphrasing for Low-resource Extractive Text Summarization*. **KSEM 2023**. [Paper]
- [15] Chengcheng Han, Liqing Cui, Renyu Zhu, **Jianing Wang**, Nuo Chen, Qiushi Sun, Xiang Li and Ming Gao. *When Gradient Descent Meets Derivative-Free Optimization: A Match Made in Black-Box Scenario*. **Findings of ACL 2023**. [Paper]
- [16] Jiyong Zhou, Chengyu Wang, Junbing Yan, **Jianing Wang**, Yukang Xie, jun huang and Ying Gao. *UKT: A Unified Knowledgeable Tuning Framework for Chinese Information Extraction*. **NLPCC 2023**, Foshan, China.
- [17] Chengyu Wang, Minghui Qiu, Taolin Zhang, Tingting Liu, Lei Li, **Jianing Wang**, Ming Wang, Jun Huang, Wei Lin. *EasyNLP: A Comprehensive and Easy-to-use Toolkit for Natural Language Processing*. **EMNLP 2022 System Demonstration**, Abu Dhabi, UAE. [Paper]

The following are 4 under-review publications:

- [18] **Jianing Wang**, Chengyu Wang, Chuanqi Tan, Songfang Huang, Jun Huang and Ming Gao. *Boosting In-Context Learning with Knowledge*. **Under-Review**.
- [19] **Jianing Wang**, Qiushi Sun, Nuo Chen, Xiang Li and Ming Gao. *Boosting Language Models Reasoning with Chain-of-Knowledge Prompting*. **Under-Review**. [Paper]
- [20] Qiushi Sun, Nuo Chen, **Jianing Wang**, Xiang Li and Ming Gao. *TransCoder: Towards Unified Transferable Code Representation Learning Inspired by Human Skills*. **Under-Review**.
- [21] Qiushi Sun, Nuo Chen, **Jianing Wang**, Xiaoli Li. Rethinking the Role of Structural Information: What Makes Code Pretrained Models Work?. **Under-Review**.

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SKILLS

Programming Skills: Python, PyTorch, Transformers, Java, SQL, ŁTĘX, HTML, CSS, Javascript, etc.

Technology Skills: Language Modeling, Knowledge Graph, Few-shot Learning.

Writing Skills: Writing blogs on CSDN and Zhihu.

PROFESSIONAL SERVICE

Reviewer for AAAI, EMNLP, ACL, etc.