

Chujie Zheng 郑楚杰

Contact Information

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Research Overview and Highlights

- I have a broad research interest in building **efficient, scalable, and trustworthy** AI systems, with the current focus on **LLM alignment and reasoning**. My research goal is to **advance and oversee AI systems with minimal human intervention and ensure they work responsibly and transparently**.
- Previously, I have conducted extensive research on **LLMs for social good**, with a main focus on building **LLMs for emotional support**.
- I also maintain the [GitHub repository](#) of **chat templates for LLMs**, which has received **600+** stars.
- Google Scholar citations **1800+**, h-index **21**, i10-index **23**.


Education

- **Ph.D. candidate** in Computer Science and Technology, Tsinghua University Sep 2020 – Present
Advisor: [Minlie Huang](#)
- **Visiting Scholar**, UCLA Nov 2023 – Jun 2024
Host: [Nanyun \(Violet\) Peng](#)
- **B.S.** in Foundational Mathematics and Physics, Tsinghua University Aug 2016 – Jun 2020

Work Experiences

- Research Intern. Qwen Post-training Team, **Alibaba Cloud** Oct 2024 – Present
 - Contributed to the **QwQ** series reasoning models
 - Built the **ProcessBench** benchmark for process error identification in mathematical reasoning
 - Contributed to the **Qwen2.5-Math-PRM-7B/72B** process reward models for mathematical reasoning
- Research Intern. AI Alignment Team, **01.AI** Jul 2024 – Oct 2024
 - Contributed to **Yi-Lightning**, which **ranks #6 on Chatbot Arena and #3 in Math Category (as of 10/14/2024)**
- Research Intern. General Dialogue Team, **Baidu** Feb 2022 – Jun 2022
 - Improved PLATO's dialogue consistency via building contradiction detectors

Selected Papers

1. **ProcessBench: Identifying Process Errors in Mathematical Reasoning**
Chujie Zheng, Zhenru Zhang, Beichen Zhang, Runji Lin, Keming Lu, Bowen Yu, Dayiheng Liu, Jingren Zhou, Junyang Lin
[\[paper\]](#) [\[repo\]](#)  [data](#)
2. **The Lessons of Developing Process Reward Models in Mathematical Reasoning**
Zhenru Zhang, Chujie Zheng, Yangzhen Wu, Beichen Zhang, Runji Lin, Bowen Yu, Dayiheng Liu, Jingren Zhou, Junyang Lin
[\[paper\]](#)  [model](#)
3. **Yi-Lightning Technical Report**
01.AI
[\[paper\]](#)
4. **Weak-to-Strong Extrapolation Expedites Alignment**
Chujie Zheng, Ziqi Wang, Heng Ji, Minlie Huang, Nanyun Peng
arXiv:2404.16792 (120K+ downloads)
[\[paper\]](#) [\[repo\]](#)  [model](#)
5. **On Prompt-Driven Safeguarding for Large Language Models**
Chujie Zheng, Fan Yin, Hao Zhou, Fandong Meng, Jie Zhou, Kai-Wei Chang, Minlie Huang, Nanyun Peng
ICML 2024 || SeT LLM Workshop @ ICLR 2024 (Oral: 5%)
[\[paper\]](#) [\[repo\]](#)
6. **Large Language Models Are Not Robust Multiple Choice Selectors**
Chujie Zheng, Hao Zhou, Fandong Meng, Jie Zhou, Minlie Huang
ICLR 2024 (Spotlight: 5%)
[\[paper\]](#) [\[repo\]](#)

Other Papers

7. **Click: Controllable Text Generation with Sequence Likelihood Contrastive Learning**
Chujie Zheng, Pei Ke, Zheng Zhang, Minlie Huang
Findings of ACL 2023
8. **AugESC: Dialogue Augmentation with Large Language Models for Emotional Support Conversation**
Chujie Zheng, Sahand Sabour, Jiaxin Wen, Zheng Zhang, Minlie Huang
Findings of ACL 2023
9. **CASE: Aligning Coarse-to-Fine Cognition and Affection for Empathetic Response Generation**
Jinfeng Zhou*, Chujie Zheng*, Bo Wang, Zheng Zhang, Minlie Huang
ACL 2023 (Oral)
10. **EVA2.0: Investigating Open-domain Chinese Dialogue Systems with Large-scale Pre-training**
Yuxian Gu*, Jiaxin Wen*, Hao Sun*, Yi Song, Pei Ke, Chujie Zheng, Zheng Zhang, Jianzhu Yao, Lei Liu, Xiaoyan Zhu, Minlie Huang

11. **CDConv: A Benchmark for Contradiction Detection in Chinese Conversations**
Chujie Zheng*, Jinfeng Zhou*, Yinhe Zheng, Libiao Peng, Zhen Guo, Wenquan Wu, Zhengyu Niu, Hua Wu, Minlie Huang
EMNLP 2022 (Oral)
12. **COLD: A Benchmark for Chinese Offensive Language Detection**
Jiawen Deng*, Jingyan Zhou*, Hao Sun, Chujie Zheng, Fei Mi, Helen Meng, Minlie Huang
EMNLP 2022 (Oral)
13. **On the Safety of Conversational Models: Taxonomy, Dataset, and Benchmark**
Hao Sun*, Guangxuan Xu*, Jiawen Deng, Jiale Cheng, Chujie Zheng, Hao Zhou, Nanyun Peng, Xiaoyan Zhu, Minlie Huang
Findings of ACL 2022
14. **CEM: Commonsense-aware Empathetic Response Generation**
Sahand Sabour, Chujie Zheng, Minlie Huang
AAAI 2022 (Oral)
15. **Exploring Prompt-based Few-shot Learning for Grounded Dialog Generation**
Chujie Zheng, Minlie Huang
arXiv:2109.06513
16. **EVA: An Open-Domain Chinese Dialogue System with Large-Scale Generative Pre-Training**
Hao Zhou*, Pei Ke*, Zheng Zhang*, Yuxian Gu, Yinhe Zheng, Chujie Zheng, Yida Wang, Chen Henry Wu, Hao Sun, Xiaocong Yang, Bosi Wen, Xiaoyan Zhu, Minlie Huang, Jie Tang
arXiv:2108.01547
17. **Towards Emotional Support Dialog Systems**
Siyang Liu*, Chujie Zheng*, Orianna Demasi, Sahand Sabour, Yu Li, Zhou Yu, Yong Jiang, Minlie Huang (*: Equal contribution)
ACL-IJCNLP 2021 (Oral)
18. **CoMAE: A Multi-factor Hierarchical Framework for Empathetic Response Generation**
Chujie Zheng, Yong Liu, Wei Chen, Yongcai Leng, Minlie Huang
Findings of ACL-IJCNLP 2021
19. **PsyQA: A Chinese Dataset for Generating Long Counseling Text for Mental Health Support**
Hao Sun*, Zhenru Lin*, Chujie Zheng, Siyang Liu, Minlie Huang
Findings of ACL-IJCNLP 2021
20. **Difference-aware Knowledge Selection for Knowledge-grounded Conversation Generation**
Chujie Zheng, Yunbo Cao, Daxin Jiang, Minlie Huang
Findings of EMNLP 2020
21. **KdConv: A Chinese Multi-domain Dialogue Dataset Towards Multi-turn Knowledge-driven Conversation**
Hao Zhou*, Chujie Zheng*, Kaili Huang, Minlie Huang, Xiaoyan Zhu
ACL 2020
22. **ChID: A Large-scale Chinese IDiom Dataset for Cloze Test**
Chujie Zheng, Minlie Huang, Aixin Sun

Selected Awards and Honors

- Comprehensive Merit Scholarship, Tsinghua University 2021 – 2024
- Outstanding Undergraduate, Tsinghua University 2020
- China National Scholarship (Top 2/100) 2019
- Comprehensive Merit Scholarship, Tsinghua University 2018

Academic Services

- **Area Chair:** ACL (24/25), EMNLP (24), NAACL (25), ACL Rolling Review (24/25)
- **Reviewer:** ICLR (25), NeurIPS (24/25), ICML (24), COLM (24/25), ACL (22/23), EMNLP (21/22), NAACL (24), EACL (23), ACL Rolling Review (21/22/23), CogSci (24), AAAI (22/23)