Danqing Wang

Language Technologies Institute - Carnegie Mellon University
PA 15213
✉ danqingw@andrew.cmu.edu
dqwang122.github.io
🐦 dqwang122

Research Interest: Developing generative AI to benefit human life. Mainly focus on (but not limited to):
- Reasoning, Planning, Collaboration, Alignment for Large Language Models
- AI for Drug Discovery: Peptide Design, Antibody Discovery, etc.

Github: *https://github.com/dqwang122*
Scholar: *Google Scholar*, *Semantic Scholar*

Education

2024 – Current	**PhD in Language Technologies Institute**, *Carnegie Mellon University* Advisor: Prof. Lei Li
2022 – 2023	**PhD in Computer Science**, *UC, Santa Barbara* Advisor: Prof. Lei Li
2018 – 2021	**Master in Computer Science**, *Fudan Univerisity* Advisor: Prof. Xipeng Qiu and Prof. Xuanjing Huang
2014 – 2018	**Bachelor in Computer Science and Technology**, *Fudan Univerisity*

Experience

2024.3 – 2024.5	**Research Scientist Intern**, *Alibaba (Team Qwen)* Advisor: Jianxin Ma
2023.6 – 2024.1	**Research Scientist Intern**, *Meta AI (FAIR)* Advisor: Yuandong Tian
2020.4 – 2022.8	**Research Scientist**, *ByteDance Research (AI Lab)* Advisor: Jiaze Chen, Hao Zhou, and Lei Li

Publications

Preprint **[1] Cooperative Strategic Planning Enhances Reasoning Capabilities in Large Language Models** ⌗
Danqing Wang, Zhuorui Ye, Fei Fang, Lei Li

Preprint **[2] TypedThinker: Typed Thinking Improves Large Language Model Reasoning** ⌗
Danqing Wang, JianXin Ma, Fei Fang, Lei Li

EMNLP 2024 **[3] Learning Personalized Alignment for Evaluating Open-ended Text Generation** ⌗
Danqing Wang, Kevin Yang, Hanlin Zhu, Xiaomeng Yang, Andrew Cohen, Lei Li, Yuandong Tian

KDD 2024 **[4] Global Human-guided Counterfactual Explanations for Molecular Properties via Reinforcement Learning** ⌗
Danqing Wang*, Antonis Antoniades*, Kha-Dinh Luong, Edwin Zhang, Mert Kosan, Jiachen Li, William Yang Wang, Ambuj Singh, Lei Li

EMNLP 2023 **[5] Learning from Mistakes via Cooperative Study Assistant for Large Language Models** ⌗
Danqing Wang, Lei Li

EMNLP 2023 **[6] Instructscore: Towards Explainable Text Generation Evaluation with Automatic Feedback** ⌗
Wenda Xu, Danqing Wang, Liangming Pan, Zhenqiao Song, Markus Freitag, William Yang Wang, Lei Li

NeurIPS 2023 **[7] ALGO: Synthesizing Algorithmic Programs with Generated Oracle Verifiers** ⌗
Kexun Zhang, Danqing Wang, Jingtao Xia, William Yang Wang, Lei Li

ICLR 2023 **[8] On Pre-training Language Model for Antibody** ⌗
Danqing Wang, Fei Ye, Hao Zhou

KDD 2023 **[9] Accelerating Antimicrobial Peptide Discovery with Latent Structure** ⌗
Danqing Wang, Zeyu Wen, Fei Ye, Lei Li, Hao Zhou

NAACL 2022 Findings **[10] MTG: A Benchmark Suite for Multilingual Text Generation** ⌗
Yiran Chen, Zhenqiao Song, Xianze Wu, Danqing Wang, Jingjing Xu, Jiaze Chen, Hao Zhou, Lei Li

NLPCC 2021	**[11] CNewSum: A Large-scale Chinese News Summarization Dataset with Human-annotated Adequacy and Deducibility Level** ✎ *Danqing Wang, Jiaze Chen, Xianze Wu, Hao Zhou, Lei Li*
AAAI 2021	**[12] Enhancing Scientific Papers Summarization with Citation Graph** ✎ *Chenxin An, Ming Zhong, Yiran Chen, Danqing Wang, Xipeng Qiu, Xuanjing Huang*
ACL 2021 Finding	**[13] Contrastive Aligned Joint Learning for Multilingual Summarization** ✎ *Danqing Wang, Jiaze Chen, Hao Zhou, Xipeng Qiu, Lei Li*
ACL 2020	**[14] Heterogeneous Graph Neural Networks for Extractive Document Summarization** ✎ *Danqing Wang*, Pengfei Liu*, Yining Zheng, Xipeng Qiu and Xuanjing Huang*
ACL 2020	**[15] Extractive Summarization as Text Matching** ✎ *Ming Zhong*, Pengfei Liu*, Yiran Chen, Danqing Wang, Xipeng Qiu and Xuanjing Huang*
ACL 2019	**[16] Searching for Effective Neural Extractive Summarization: What Works and What's Next** ✎ *Ming Zhong*, Pengfei Liu*, Danqing Wang, Xipeng Qiu, Xuanjing Huang*

Academic Services

- Program Committee of ICML, ICLR, NeurIPS, ACL, EMNLP, NAACL, AAAI, KDD
- TA for CS190I Deep Learning (Winter 2023) and CS165B Machine Learning (Spring 2023)
- Local Organization Chair of Socal NLP Symposium 2022

Honor

2022	Academic Excellence Fellowship
2021	Shanghai Outstanding Graduates (5% of graduates)
2020	Venustech Scholarship (1% of Fudan students)
2019	Scholarship for Outstanding Students (First Prize)
2017	Fudan's Undergraduate Research Opportunities Program