

Danqing Wang

Language Technologies Institute - Carnegie Mellon University - PA

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📄 dqwang122.github.io

Research Interest: Interested in various generation tasks, including large language models and biological sequences. Devoted to helping the machine generate new content that benefits human life. Mainly focus on (but not limited to):

- Reasoning and Planning in Large Language Models: Multi-agent Collaboration, Alignment, etc.
- AI for Science: Peptide Design, Antibody Discovery, etc.

Github: <https://github.com/dqwang122>

Scholar: Google Scholar, Semantic Scholar

Education

2024 – **PhD in Language Technologies Institute, Carnegie Mellon University**

Current Advisor: Prof. Lei Li

2022 – 2023 **PhD in Computer Science, UC, Santa Barbara**

Advisor: Prof. Lei Li

2018 – 2021 **Master in Computer Science, Fudan University**

Advisor: Prof. Xipeng Qiu and Prof. Xuanjing Huang

2014 – 2018 **Bachelor in Computer Science and Technology, Fudan University**

Ranking: Top 10%

Experience

2023.6 – **Research Scientist Intern, Meta AI (FAIR)**

2024.1 Advisor: Yuandong Tian

2020.4 – **Research Scientist, ByteDance Research (AI Lab)**

2022.8 Advisor: Jiaze Chen, Hao Zhou, and Lei Li

Main Publications

Large Language Models

Preprint on **Learning Personalized Alignment for Evaluating Open-ended Text Generation** 📄

arXiv [Danqing Wang, Kevin Yang, Hanlin Zhu, Xiaomeng Yang, Andrew Cohen, Lei Li, Yuandong Tian](#)

EMNLP 2023 **Learning from Mistakes via Cooperative Study Assistant for Large Language Models** 📄

[Danqing Wang, Lei Li](#)

EMNLP 2023 **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 **ALGO: Synthesizing Algorithmic Programs with Generated Oracle Verifiers** 📄

[Kexun Zhang, Danqing Wang, Jingtao Xia, William Yang Wang, Lei Li](#)

AI for Science

KDD 2024 **Global Human-guided Counterfactual Explanations for Molecular Properties via Reinforcement Learning** 📄

[Danqing Wang*, Antonis Antoniadou*, Kha-Dinh Luong, Edwin Zhang, Mert Kosan, Jiachen Li, William Yang Wang, Ambuj Singh, Lei Li](#)

ICLR 2023 **On Pre-training Language Model for Antibody** 📄

[Danqing Wang, Fei Ye, Hao Zhou](#)

KDD 2023 **Accelerating Antimicrobial Peptide Discovery with Latent Structure** 📄

[Danqing Wang, Zeyu Wen, Fei Ye, Lei Li, Hao Zhou](#)

Text Summarization

ACL 2021 **Contrastive Aligned Joint Learning for Multilingual Summarization** 📄

Finding [Danqing Wang, Jiaze Chen, Hao Zhou, Xipeng Qiu, Lei Li](#)

ACL 2020 **Heterogeneous Graph Neural Networks for Extractive Document Summarization** 📄

[Danqing Wang*, Pengfei Liu*, Yining Zheng, Xipeng Qiu and Xuanjing Huang](#)

ACL 2020 **Extractive Summarization as Text Matching** 📄

Ming Zhong, Pengfei Liu*, Yiran Chen, Danqing Wang, Xipeng Qiu and Xuanjing Huang*

ACL 2019 **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, AAAI
- TA for CS190I Deep Learning (Winter 2023) and CS165B Machine Learning (Spring 2023)
- Local Organization Chair of Social 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