Weizhi Wang

CONTACT INFORMATION

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[Personal Website] [Github Repos]

RESEARCH FOCUS

I am focusing on the field of natural language generation. My research focus and past experience can be summarized as the following aspects:

- **Multi-modal Large Language Models**: visually-augmented language modeling (ICLR'22)

- **Multilingual and Multi-modal Translation**: Zero-shot/Few-shot translation in large-scale multilingual translation systems (EMNLP'21); End-to-End speech-to-text translation (AAAI'22,EMNLP'22)

- **Dialogue Systems**: knowledge-enhanced dialogue systems with large language models (SIGIR'22)

EDUCATION

University of California Santa Barbara, CA, USA   Sep 2022 – Jun 2026
Ph.D. Computer Science, GPA: 4.0/4.0
Advisor: Prof. Xifeng Yan

Rutgers University, NJ, USA   Aug 2019 – Jun 2021
M.S. Computer Science, GPA: 4.0/4.0

Xi'an Jiaotong University, Shaanxi, China   Aug 2015 – Jun 2019
B.E. Electrical Engineering, GPA: 84.0/100.0

PUBLICATIONS
(TIME ORDER)

[1] Visually-Augmented Language Modeling.
Weizhi Wang, Li Dong, Hao Cheng, Haoyu Song, Xiaodong Liu, Xifeng Yan, Jianfeng Gao, Furu Wei.
ICLR 2023. [arXiv] [code]

[2] Non-Parametric Domain Adaptation for End-to-End Speech Translation.
Yichao Du*, **Weizhi Wang***, Zhirui Zhang, Boxing Chen, Jun Xie, Tong Xu.
EMNLP 2022. **Oral Presentation, TOP 3%.** (*Equal Contribution) [arXiv] [code]

[3] Task-Oriented Dialogue System as Natural Language Generation.
Weizhi Wang, Zhirui Zhang, Junliang Guo, Yinpei Dai, Boxing Chen, and Weihua Luo.
SIGIR 2022. [arXiv] [code]

[4] Regularizing End-to-End Speech Translation with Triangular Decomposition Agreement.
Yichao Du, Zhirui Zhang, **Weizhi Wang**, Boxing Chen, Jun Xie, Tong Xu, and Weihua Luo.
AAAI 2022. [arXiv] [code]

[5] Rethinking Zero-shot Neural Machine Translation: From a Perspective of Latent Variables.
Weizhi Wang, Zhirui Zhang, Yichao Du, Boxing Chen, and Weihua Luo.
EMNLP Findings 2021. [arXiv] [code]

RESEARCH EMPLOYMENT

Microsoft Research Asia, Beijing, CN   Nov 2021 – Present
Mentor: Dr. Li Dong, Dr. Xiaodong Liu, Dr. Jianfeng Gao
Nature Language Computing Group
Description: Multi-modal Pre-trained Models with Visual-knowledge Enhancement.

Alibaba DAMO Academy, Hangzhou, CN   Sep 2020 – Nov 2021
Mentor: Dr. Boxing Chen, Dr. Zhirui Zhang
Machine Translation Group, Language Technology Lab
Description: Task-Oriented Dialogue Systems, Multilingual Neural Machine Translation, and Speech-to-Text Translation.

RESEARCH   **Microsoft Research Asia**, Beijing, CN   Nov 2021 – Present
EXPERIENCE   *Mentor: Dr. Li Dong, Dr. Xiaodong Liu*, Dr. Jianfeng Gao
Nature Language Computing Group
Description: Multi-modal Pre-trained Models with Visual-knowledge Enhancement.

Alibaba DAMO Academy, Hangzhou, CN   Sep 2020 – Nov 2021
Mentor: Dr. Boxing Chen, Dr. Zhirui Zhang
Machine Translation Group, Language Technology Lab
Description: Task-Oriented Dialogue Systems, Multilingual Neural Machine Translation, and Speech-to-Text Translation.

AWARDS   - Academic Excellence Fellowship. University of California Santa Barbara. 2022.
- Outstanding Graduate Academic Performance Award. Rutgers University. 2021.
- Siyuan Scholarship. Xi'an Jiaotong University. 2016 & 2018.