Weizhi Wang

CONTACT
INFORMATION

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RESEARCH
FOCUS

I am focusing on the field of Natural Language Processing. My research focus and past experience can be summarized as the following aspects:

- **Multi-modal Large Language Models**: Visually-augmented Language Modeling (ICLR'23)

- **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 LLMs (SIGIR'22)

EDUCATION

University of California Santa Barbara, CA, USA   Sep 2022 – Jun 2026
Ph.D. Computer Science
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]

COMPETITIONS

The Fifth Amazon Alexa Prize SocialBot Grand Challenge   Nov 2022 - Sep 2023
Championship🏆, winning $250,000 first place bonus
Description: As a member of *GauchoChat* team, we developed a proactive, controllable, and personalized social chatbot.

PROFESSIONAL
SERVICES

- Conference Reviewer: KDD 2023, NeurIPS 2023, ICLR 2024.
- Journal Reviewer: TASLP, TALLIP.

Research Experience	**TikTok**, San Jose, US	Sep 2023 – Dec 2023

Mentor: Dr. Heng Wang
Intelligent Creation Group
Description: Vision-language pre-training with pruened high-quality dataset.

Microsoft Research Asia, Beijing, CN   Nov 2021 – May 2023
Mentor: Dr. Li Dong, Dr. Cheng Hao, Dr. Xiaodong Liu
Nature Language Computing Group
Description: Large Language Models with visual-knowledge enhancement, Augmenting Large Language Models with long-term memory.

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.