Weizhi Wang

CONTACT
INFORMATION

5 Danling St
Haidian District, Beijing, China 100080

weizhi.wang@rutgers.edu
[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 Learning**: multimodal common reasoning with pre-trained language models

- **Multilingual and Multimodal Translation**: zero-shot/few-shot translation in large-scale multilingual translation systems; end-to-end speech-to-text translation

- **Dialogue Systems**: knowledge-enhanced dialogue systems with pre-trained models

EDUCATION

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

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

PUBLICATIONS
AND PREPRINTS

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

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

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

[4] Adaptive Region Growing For Unmanned System.
Tao Wang, Hui Cao, Xingyu Yan, Yanqing Ma, and **Weizhi Wang**.
Chinese Control Conference (CCC) 2019. [PDF]

PREPRINTS

[1] Non-Parametric Domain Adaptation for End-to-End Speech Translation.
Yichao Du*, **Weizhi Wang***, Zhirui Zhang, Boxing Chen, Jun Xie, Tong Xu.
Under Review. (*Equal Contribution)

RESEARCH
EXPERIENCE

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

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

Rutgers University, New Brunswick, NJ, US   Nov 2019 – May 2020
Mentor: Prof. Sungjin Ahn
Rutgers Machine Learning Group
Description: Working on Representation Learning on Hippocampal-Entorhinal System of Human
with Deep Generative Models.

SKILLS
- Language Efficiency: GRE: V-154, Q-170, W-4.0
- Support Programs: Git, PyTorch, HuggingFace Transformers, FairSeq, Docker
- Programming Languages: Python, Java, C++, HTML

TEACHING
EXPERIENCE

Teaching Assistant   Feb 2020 – May 2021
Rutgers University, New Brunswick, NJ, US
CS170, Computer Applications of Business

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.