

RESEARCH INTERESTS

I am interested in many aspects of machine translation:

- Controllable Generation
- Uncertainty Estimation and Confidence Calibration
- Data Augmentation and Pre-Training
- Multilinguality

EDUCATION

Ph.D in Artificial Intelligence

08.2018–Now

Tsinghua University

Beijing, China

- Advisor: Prof. Yang Liu

B.S. in Computer Science and Technology

09.2014–07.2018

Tsinghua University

Beijing, China

- GPA: **92.0** Rank: **10/173**
- Advisor: Prof. Yang Liu
- Senior Thesis: Double-Attention Mechanism for Speech Translation

Exchange Student in Department of EECS

07.2016–08.2016

National Tsing Hua University

Taiwan, China

PUBLICATIONS

- [1] Integrating Vectorized Lexical Constraints for Neural Machine Translation
Shuo Wang, Zhixing Tan, Yang Liu
Proceedings of ACL 2022
- [2] MSP: Multi-Stage Prompting for Making Pre-trained Language Models Better Translators
Zhixing Tan, Xiangwen Zhang, **Shuo Wang**, Yang Liu
Proceedings of ACL 2022
- [3] On the Language Coverage Bias for Neural Machine Translation
Shuo Wang, Zhaopeng Tu, Zhixing Tan, Shuming Shi, Maosong Sun, Yang Liu
Findings of the Association for Computational Linguistics: ACL 2021
- [4] Neural machine translation: A review of methods, resources, and tools
Zhixing Tan, **Shuo Wang**, Zonghan Yang, Gang Chen, Xuancheng Huang, Maosong Sun, Yang Liu
AI Open
- [5] On the Inference Calibration of Neural Machine Translation
Shuo Wang, Zhaopeng Tu, Shuming Shi, Yang Liu
Proceedings of ACL 2020
- [6] Tsinghua University Neural Machine Translation Systems for CCMT 2020
Gang Chen, **Shuo Wang**, Xuancheng Huang, Zhixing Tan, Maosong Sun, Yang Liu
Proceedings of CCMT 2020

- [7] THUMT: An Open-Source Toolkit for Neural Machine Translation
Zhixing Tan, Jiacheng Zhang, Xuancheng Huang, Gang Chen, **Shuo Wang**, Maosong Sun, Huanbo Luan, Yang Liu
Proceedings of AMTA 2020
- [8] Improving Back-Translation with Uncertainty-based Confidence Estimation
Shuo Wang, Yang Liu, Chao Wang, Huanbo Luan, Maosong Sun
Proceedings of EMNLP 2019

Competitions

- [1] CCMT 2020
Gang Chen, **Shuo Wang**, Xuancheng Huang, Zhixing Tan, Maosong Sun, Yang Liu
Chinese \Rightarrow English Translation, **1st place**

RESEARCH EXPERIENCE

Research Intern	<i>07.2019–02.2021</i>
Tencent AI Lab	<i>Shenzhen, China</i>
<ul style="list-style-type: none">Advisor: Zhaopeng TuConfidence calibration of neural machine translation	

HONORS AND AWARDS

• Technology Innovation Award of Rhino-Bird Focused Research Program, Tencent AI Lab	<i>09.2020</i>
• China National Scholarship, Ministry of Education of China.	<i>10.2020</i>
• Recognition Award of Rhino-Bird Elite Training Program, Tencent AI Lab.	<i>08.2019</i>
• Excellent Graduate, Dept. of Computer Science and Technology, Tsinghua University.	<i>07.2018</i>
• Academic Excellence Scholarship, Dept. of Computer Science and Technology, Tsinghua University	<i>11.2017</i>
• Academic Excellence Scholarship, Dept. of Computer Science and Technology, Tsinghua University	<i>11.2016</i>

TEACHING EXPERIENCE

Teaching Assistant	
Artificial Intelligence	<i>Spring 2020, 2021, 2022</i>
Tsinghua University	<i>Beijing, China</i>
<ul style="list-style-type: none">Taught a lecture on the use of deep learning frameworksPrepared materials for several chaptersGraded assignments	

Professional Services

- Conference Reviewer: EMNLP, ACL
- Secondary Reviewer: NeurIPS, ICLR, AACL, NAACL