Shuo Wang

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https://shuowang.cool/

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⇌English Translation, **1st place**

RESEARCH EXPERIENCE

Research Intern   *07.2019–02.2021*

Tencent AI Lab   *Shenzhen, China*

- Advisor: Zhaopeng Tu
- Confidence calibration of neural machine translation

HONORS AND AWARDS

- Technology Innovation Award of Rhino-Bird Focused Research Program, Tencent AI Lab   *09.2021*
- China National Scholarship, Ministry of Education of China.   *10.2020*
- Recognition Award of Rhino-Bird Elite Training Program, Tencent AI Lab.   *08.2019*
- Excellent Graduate, Dept. of Computer Science and Technology, Tsinghua University.   *07.2018*
- Academic Excellence Scholarship, Dept. of Computer Science and Technology, Tsinghua University   *11.2017*
- Academic Excellence Scholarship, Dept. of Computer Science and Technology, Tsinghua University   *11.2016*

TEACHING EXPERIENCE

Teaching Assistant

Artificial Intelligence   *Spring 2020, 2021, 2022*

Tsinghua University   *Beijing, China*

- Taught a lecture on the use of deep learning frameworks
- Prepared materials for several chapters
- Graded assignments

Professional Services

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