Shuo Wang

Tsinghua University
+86 18401653218
wangshuo.thu@gmail.com
Google Scholar

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]   A Template-based Method for Constrained Neural Machine Translation
      Shuo Wang, Peng Li, Zhixing Tan, Zhaopeng Tu, Maosong Sun, Yang Liu
      Proceedings of EMNLP 2022

[2]   Integrating Vectorized Lexical Constraints for Neural Machine Translation
      Shuo Wang, Zhixing Tan, Yang Liu
      Proceedings of ACL 2022

[3]   MSP: Multi-Stage Prompting for Making Pre-trained Language Models Better Translators
      Zhixing Tan, Xiangwen Zhang, **Shuo Wang**, Yang Liu
      Proceedings of ACL 2022

[4]   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

[5]   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

[6]   On the Inference Calibration of Neural Machine Translation
      Shuo Wang, Zhaopeng Tu, Shuming Shi, Yang Liu
      Proceedings of ACL 2020

[7]   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

[8]   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

[9]   Improving Back-Translation with Uncertainty-based Confidence Estimation
      Shuo Wang, Yang Liu, Chao Wang, Huanbo Luan, Maosong Sun
      Proceedings of EMNLP 2019

PREPRINTS

[1] Understanding and Mitigating the Uncertainty in Zero-Shot Translation
   Wenxuan Wang, Wenxiang Jiao, **Shuo Wang**, Zhaopeng Tu, Michael R. Lyu
   arXiv:2205.10068

[2] Language Models are Good Translators
   Shuo Wang, Zhaopeng Tu, Zhixing Tan, Wenxuan Wang, Maosong Sun, Yang Liu
   arXiv:2106.13627

COMPETITIONS

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

PROJECTS

[1] Speech translation for the Beijing Winter Olympics
   Core contributor of the backend and algorithm. Our system exhibited at the 3th and 4th China Beijing International
Language Culture Expo.

[2] Large language model for Chinese medical treatment
   Core contributor of model training. Our model (5B) achieves SOTA performance on cMedQQ and cMedQA.

EXPERIENCES

Research Intern   *07.2019–02.2021*
Tencent AI Lab   *Shenzhen, China*

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

HONORS AND AWARDS

- Academic 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.   *08.2020*
- 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