

## RESEARCH INTERESTS

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I am interested in many aspects of machine translation:

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

## EDUCATION

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### 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

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- [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

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

## RESEARCH EXPERIENCE

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- Research Intern** *07.2019–02.2021*  
Tencent AI Lab *Shenzhen, China*
- Advisor: Zhaopeng Tu
  - Confidence calibration of neural machine translation

## HONORS AND AWARDS

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- 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. *08.2019*
- 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

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- 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

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