Shaomu Tan

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RESEARCH TOPICS

- Multilingual Machine Translation, Large Language Models, and Deep Learning for NLP.

EDUCATION

University of Amsterdam, Netherlands **2022 – Present**
Ph.D. candidate at Language Technology Lab
Research Directions: Multilingual Machine Translation, Deep Learning for NLP. Mentored by *Christof Monz*.

Utrecht University, Netherlands **2020 – 2022**
Master of Artificial Intelligence. GPA – 8/10 (US scale: 4.0/4.0).

Shandong University, China **2016 – 2020**
Bachelor of Information System. Grade – 84.2% (US scale: 3.3/4.0)

PUBLICATIONS

Shaomu Tan, Di Wu, and Christof Monz. "Neuron Specialization: Leveraging intrinsic task modularity for multilingual machine translation.", Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP 2024).

Di Wu, **Shaomu Tan**, and Christof Monz. "How Far Can 100 Samples Go? Unlocking Overall Zero-Shot Multilingual Translation via Tiny Multi-Parallel Data.", Findings of the Association for Computational Linguistics ACL 2024 (ACL 2024).

Shaomu Tan and Christof Monz. "Towards a Better Understanding of Variations in Zero-Shot Neural Machine Translation Performance.", Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP 2023).

Baohao Liao, **Shaomu Tan**, and Christof Monz. "Make Pre-trained Model Reversible: From Parameter to Memory Efficient Fine-Tuning.", Advances in Neural Information Processing Systems (NeurIPS 2023).

Wu Di*, **Shaomu Tan***, at al. "UvA-MT's Participation in the WMT23 General Translation Shared Task.", Proceedings of the Eighth Conference on Machine Translation (WMT 2023).

TEACHING AND SERVICE

Program Committee **2023 - Present**

- ACL ARR - February, April, June 2024.
- Transactions on Audio, Speech and Language Processing (TASLP 2023).
- Conference on Machine Translation (WMT24).

WORKING EXPERIENCE

Natural Language Processing Thesis Intern **May 2021 - July 2022**

- At ABN AMRO and Utrecht University.
- Working on improving real-world bank conversational Question-Answering system.
- Mentored by Prof. Denis Paperno, Dr.Tim Hunter, and Wei Zhong.