


Shaomu Tan

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RESEARCH INTERESTS

- 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.", EMNLP 2024, [\[link\]](#).

Di Wu, **Shaomu Tan**, and Christof Monz. "How Far Can 100 Samples Go? Unlocking Overall Zero-Shot Multilingual Translation via Tiny Multi-Parallel Data.", ACL Findings 2024, [\[link\]](#).

Shaomu Tan, and Christof Monz. "Towards a Better Understanding of Variations in Zero-Shot Neural Machine Translation Performance.", EMNLP 2023, [\[link\]](#).

Baohao Liao, **Shaomu Tan**, and Christof Monz. "Make Pre-trained Model Reversible: From Parameter to Memory Efficient Fine-Tuning.", NeurIPS 2023, [\[link\]](#).

Wu Di*, **Shaomu Tan***, at al. "UvA-MT's Participation in the WMT23 General Translation Shared Task.", WMT 2023, [\[link\]](#).

COMPETITIONS

Gold Medal on Kaggle 2023 Competition: Google's American Sign Language Fingerspelling Recognition - **ranked 11/1,315 teams**, [\[link\]](#).

First place in WMT 2023 General Machine Translation Competition: English-Hebrew Constrained Translation Track, [\[link\]](#).

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).
- 4th Multilingual Representation Learning (MRL) workshop at EMNLP 2024.

Guest Lecture **June 2024**

- "A Journey on Multilingual Neural Machine Translation" at Utrecht University for AI Bachelor course "Models for Language Processing", together with Prof. Denis Paperno.