Shaomu Tan

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RESEARCH INTERESTS

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

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.", Under Review 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]

PREVIOUS WORKING EXPERIENCE

Msc Thesis Internship **May 2021 - July 2022**

- At ABN AMRO N.V. (Amsterdam AI Innovation Group) and Utrecht University.
- Working on building and improving real-world conversational QA systems using Information Retrieval and Generative Language Models.
- Mentored by Prof. Denis Paperno, Wei Zhong, and Dr. Tim Hunter.