


# Shaomu Tan

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Google-Scholar: KJRzX-gAAAAJ

## RESEARCH INTERESTS

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

## EDUCATION

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**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

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**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

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

**First place** in WMT 2023 Competition on English-Hebrew Constrained Track - [\[link\]](#)

## WORKING EXPERIENCE

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

- At ABN AMRO Bank and Utrecht University.
- Working on building real-world conversational QA system using Information Retrieval and Generative Language Models .
- Mentored by Prof. Denis Paperno, Wei Zhong, and Dr. Tim Hunter.