# Mingyang Wang

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## Research Interest

Multilingual Large Language Models; Large Language Model Interpretability; Language Model Continual Learning

## Education

**PhD in Computer Science,** *University of Munich (LMU Munich)*    **Munich, Germany** *09/2022 - present*
- Focus: Multilingual Large Language Models; Large Language Model Interpretability; Language Model Continual Learning
- Supervisor: Hinrich Schütze

**Msc. Robotics, Cognition, Intelligence** *Technical University Munich*    **Munich, Germany** *10/2019 - 08/2022*
- GPA: 1.2/1.0, TOP 5%,
- Thesis Topic: Meta-reinforcement learning based on self-supervised task representation learning

**BSc. Vehicle Engineering** *Tongji University*    **Shanghai, China** *09/2014 - 07/2019*
- GPA: 4.73/5.0, TOP 10%,

## Honors and Awards

- **Best Paper Award,** SemEval workshop 2024 at NAACL
- **Best System Award; Best Paper Award Nomination,** SemEval workshop 2023 at ACL
- **Graduate with High Distinction,** TOP 5% at Technical University Munich, 2022
- **Outstanding Graduates,** TOP 10% at Tongji University, 2019
- **A-level scholarship,** Tongji University, 2014-2018

## Selected Publications

1. **Mingyang Wang\***, Lukas Lange, Heike Adel, Yunpu Ma, Jannik Strötgen, Hinrich Schütze. "Language Mixing in Reasoning Language Models: Patterns, Impact, and Internal Causes" **Under Review**

2. **Mingyang Wang\***, Heike Adel, Lukas Lange, Yihong Liu, Ercong Nie, Jannik Strötgen, Hinrich Schütze. "Lost in Multilinguality: Dissecting Cross-lingual Factual Inconsistency in Transformer Language Models" @ **ACL 2025**

3. **Mingyang Wang\***, Lukas Lange, Heike Adel, Jannik Strötgen, Hinrich Schütze. "Better Call SAUL: Fluent and Consistent Language Model Editing with Generation Regularization" @ **EMNLP 2024**

4. **Mingyang Wang\***, Heike Adel, Lukas Lange, Jannik Strötgen, Hinrich Schütze. "Rehearsal-Free Modular and Compositional Continual Learning for Language Models" @ **NAACL 2024**

5. Miaoran Zhang\*, **Mingyang Wang**, Jesujoba O Alabi, Dietrich Klakow. "AAdaM at SemEval-2024 Task 1: Augmentation and Adaptation for Multilingual Semantic Textual Relatedness" ★ **Best Paper Award** ★ @ **SemEval workshop 2024 - NAACL**

6. Yihong Liu\*, Peiqin Lin, **Mingyang Wang**, Hinrich Schütze. "OFA: A Framework of Initializing Unseen Subword Embeddings for Efficient Large-scale Multilingual Continued Pretraining" @ **NAACL 2024**

7. Miaoran Zhang*, Vagrant Gautam, **Mingyang Wang**, Jesujoba O Alabi, Xiaoyu Shen, Dietrich Klakow, Marius Mosbach. "The Impact of Demonstrations on Multilingual In-Context Learning: A Multidimensional Analysis" @ **ACL 2024**

8. **Mingyang Wang***, Heike Adel, Lukas Lange, Jannik Strötgen, Hinrich Schütze. "Learn it or Leave it: Module Composition and Pruning for Continual Learning" @ **Rep4NLP workshop 2024** - **ACL**

9. **Mingyang Wang***, Heike Adel, Lukas Lange, Jannik Strötgen, and Hinrich Schütze. "GradSim: Gradient-Based Language Grouping for Effective Multilingual Training." @ **EMNLP 2023**

10. **Mingyang Wang***, Heike Adel, Lukas Lange, Jannik Strötgen, Hinrich Schütze. "NLNDE at SemEval-2023 Task 12: Adaptive Pretraining and Source Language Selection for Low-Resource Multilingual Sentiment Analysis" ★ **Best System Award and Best Paper Award Nomination** ★ @ **SemEval workshop 2023** - **ACL**

11. **Mingyang Wang***, Zhenshan Bing, Xiangtong Yao, Shuai Wang, Huang Kai, Hang Su, Chenguang Yang, Alois Knoll. "Meta-reinforcement learning based on self-supervised task representation learning" @ **AAAI 2023**

## Industrial Experience

**Research Intern - Robert Bosch Group**  **Stuttgart, Germany** *03/2022 - 08/2022*
- Main task: Few-shot object detection for industrial application.
- Improve the performance of Bosch Automated Optical Inspection System (AOI) for image-based product inspection.
- Apply Transfer Learning and Meta-Learning methods to realize few-shot object detection and improve data efficiency.

**R&D Intern - NIO Co. Ltd.**  **Shanghai, China** *09/2018 - 03/2019*
- Assist in the data analysis and tracking work of Airbag Control Module based on vehicle crash tests.
- Support for internal Project Management (PM) affairs.

## Organizational Experience

- **Organization:** Co-Chair for the ACL Student Research Workshop 2025
- **Conference Reviewer**: ACL; EMNLP; NAACL; AAAI; ACL Student Research Workshop

## Skills

- **Programming:** Python, C++, C#
- **Software Skills:** PyTorch, Tensorflow, HuggingFace, Git, Linux, LaTeX, Matlab

## Languages

- **Chinese** [Native]
- **English** [C1 - TOEFL 103]
- **German** [C1 - TestDaF 17; DSH 3]