Jingheng Pan

Last update: June, 2025

Education

University of Hamburg — Hamburg, Germany
Ph.D. in Language Technology Group, Advisor: Prof. Dr. Chris Biemann — Oct. 2025 - Oct. 2028

University of Hamburg — Hamburg, Germany
M.S. in Business Informatic — Oct. 2022 - Oct. 2025

Xi'an University of Posts & Telecommunications — Xi'an, China
B.S. in Information Management and Information Systems — Sept. 2017 - Jul. 2021

Experience

University of Hamburg, Language Technology Group — Hamburg, Germany
Research Assistant, Advisor: Xintong Wang — Sept. 2023 - Sept. 2025

- Large Vision-Language Models

Keepyun Technology Co., Ltd. — Zhuhai, China
Golang Engineer — Dec. 2021 - Mar. 2023

- Full-Stack Development and System Maintenance

Publications

1. Xintong Wang, Yixiao Liu, **Jingheng Pan**, Longyue Wang, and Chris Biemann, "*ToxiRewriteCN* : Chinese Toxic Language Mitigation via Sentiment Polarity Consistent Rewrites: Benchmark and Evaluation", *The 2025 Conference on Empirical Methods in Natural Language Processing (EMNLP 2025). (**CORE Rank A* Top 15%**).* May 2025 **[LVLM Multimodal&Multilingual]**
   - Fine-tuned a detoxification- and a sentimental polarity classifier
   - Benchmarked both closed-source and open-source models for performance comparison

2. Xintong Wang, **Jingheng Pan**, Yixiao Liu, Chris Biemann, and Longyue Wang, "Rethinking Multilingual Vision-Language Translation: Dataset, Evaluation, and Adaptation", *Under Review.* April 2025 **[LVLM Multimodal & Multilingual]**
   - Fine-tuned state-of-the-art LVLMs (e.g., Qwen-VL, InternVL) with LoRA and evaluated their performance on multilingual translation benchmarks
   - Designed and implemented a density-aware evaluation framework

3. Xintong Wang, **Jingheng Pan**, Liang Ding, Longyue Wang, Longqin Jiang, Xingshan Li, and Chris Biemann, "*CogSteer*: Cognition-Inspired Selective Layer Intervention for Efficiently Steering Large Language Models", *Findings of the Association for Computational Linguistics (ACL).* August 2025 ***(Core Rank A* and CCF-A)*** **[LLM Interpretability&Efficiency&Safety]**
   - Applied the PEFT method to selectively intervene intermediate outputs of different layers in LLMs (e.g., GPT-2, Mistral, LLaMA)

4. Xintong Wang, **Jingheng Pan**, Liang Ding, and Chris Biemann, "Mitigating Hallucinations in Large Vision-Language Models with Instruction Contrastive Decoding", *Findings of the Association for Computational Linguistics (ACL). August 2024* ***(Core Rank A* and CCF-A)*** **[LVLM Hallucination]**
   - Applied the proposed ICD method to mitigate hallucinations in LVLMs (e.g., InstructBLIP, LLaVA) and validated its effectiveness across multiple benchmarks

Professional Activities

- Conference Reviewer: ACL, NAACL, ACMMM, EMNLP 2025
  Multimodal Learning

Teaching

- **Lecturer** at University of Hamburg Summer 2025
  Master Course: Exercises Statistical Methods of Language Technology

Skills

- **Programming Languages:** Python, Java, Golang, C
- **Toolkit for Deep Learning:** PyTorch, Numpy, Pandas, Matplotlib, Transformers, NLTK, Scikit-learn

Languages

- **Chinese:** Native
- **English:** Proficient in spoken and written
- **German:** Advanced language skills (B2)