

Xintong Wang

EDUCATION

University of Hamburg Ph.D. in Computer Science, Advisor: Prof. Dr. Chris Biemann – Thesis: “Multimodal Representation Learning: Understanding and Leveraging”	Hamburg, Germany Apr. 2021 - Apr. 2026
South China University of Technology M.S. in Computer Science, GPA: 3.70/4.00, Advisor: Prof. Dr. Jianming Lv – Thesis: “Research on Abstractive Summarization”	Guangzhou, China Sept. 2016 - July 2019
South China University of Technology B.S. in Computer Science, GPA: 3.40/4.00 – Thesis: “Spatio-temporal Data Storage and Mining Systems”	Guangzhou, China Sept. 2012 - June 2016

EXPERIENCE

The Chinese Academy of Sciences Visiting Researcher, Advisor: Prof. Dr. Xingshan Li and Prof. Dr. Qingqing Qu – Language Models – Understand Language Models from Cognition Perspective: Regression and Prediction	Beijing, China Dec. 2022 - Mar. 2023
University of Hamburg Research Associate, Advisor: Prof. Dr. Chris Biemann – Cross-modal Learning – Cross-modal Learning for Improving Human Learning to Read	Hamburg, Germany May 2020 - Mar. 2021
The Hong Kong Polytechnic University Research Assistant, Advisor: Prof. Dr. Wenjie Li – Summarization – Fusing External Language Models in the Abstractive Summarization	Hong Kong, China Oct. 2018 - Aug. 2019
The Chinese Academy of Sciences Visiting Student Researcher, Advisor: Prof. Dr. Min Yang – Summarization – Generative Adversarial Network for Abstractive Text Summarization with Multi-task Constraint	Shenzhen, China Mar. 2018 - Oct. 2018

PUBLICATIONS

- Xintong Wang**, Jingheng Pan, Longqin Jiang, and Chris Biemann, “Uncertainty-Aware Contrastive Decoding for Mitigating Ambiguity and Off-Target Issues in Multimodal Machine Translation”, *Ongoing Project. October 2024* [[LVLM Multimodal&Multilingual](#)]
- Xintong Wang**, Jingheng Pan, Longqin Jiang, Liang Ding, Xingshan Li, and Chris Biemann, “*CogSteer*: Cognition-Inspired Selective Layer Intervention for Efficient Semantic Steering in Large Language Models”, *arxiv Preprint. October 2024* [[LLM Interpretability&Efficiency&Safety](#)]
- Xintong Wang**, Yixiao Liu, Jingheng Pan, and Chris Biemann, “Mitigating Biases in Chinese Toxic Language via Sentiment Polarity Consistent Rewrites: Benchmark and Evaluation”, *arxiv Preprint. October 2024* [[LLM Benchmark&Safety](#)]

4. Daryna Dementieva, Daniil Moskovskiy, Nikolai Babakov, Abinew Ali Ayele, Naqee Rizwa, Florian Schneider, **Xintong Wang**, Seid Muhie Yimam, Dmitry Ustalov, Elisei Stakovskii, Alisa Smirnova, Ashraf Elnagar, Animesh Mukherjee and Alexander Panchenko, “Multilingual and Explainable Text Detoxification with Parallel Data”, *arxiv Preprint. September 2024* [**LLM Multilingual&Safety**]
5. **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)* [**LVLML Hallucination**]
6. Abinew Ali Ayele, Nikolay Babakov, Janek Bevendorff, Xavier Bonet Casals, Berta Chulvi, Daryna Dementieva, Ashaf Elnagar, Dayne Freitag, Maik Fröbe, Damir Korenčić, Maximilian Mayerl, Daniil Moskovskiy, Animesh Mukherjee, Alexander Panchenko, Martin Potthast, Francisco Manuel Rangel, Naqee Rizwan, Paolo Rosso, Florian Schneider, Alisa Smirnova, Efstathios Stamataatos, Elise Stakovskii, Benno Stein, Mariona Taulé, Dmitry Ustalov, **Xintong Wang**, Matti Wiegmann, Seid Muhie Yimam and Eva Zangerle (*authors are listed in alphabetical order*), “Overview of PAN 2024: Multi-Author Writing Style Analysis, Multilingual Text Detoxification, Oppositional Thinking Analysis, and Generative AI Authorship Verification”, *Proceedings of the 15th International Conference of the Cross-Language Evaluation Forum for European Languages (CLEF 2024). September 2024* [**LLM Benchmark&Multilingual&Safety**]
7. Daryna Dementieva, Daniil Moskovskiy, Nikolai Babakov, Abinew Ali Ayele, Naqee Rizwa, Florian Schneider, **Xintong Wang**, Seid Muhie Yimam, Dmitry Ustalov, Elisei Stakovskii, Alisa Smirnova, Ashraf Elnagar, Animesh Mukherjee and Alexander Panchenko, “Overview of the Multilingual Text Detoxification Task at Pan 2024”, *Proceedings of the 2024 Working Notes of the Conference and Labs of the Evaluation Forum (CLEF 2024). September 2024* [**LLM Benchmark&Multilingual&Safety**]
8. **Xintong Wang**, Xiaoyu Li, Kingshan Li, and Chris Biemann, “Probing Large Language Models from A Human Behavioral Perspective”, *Proceedings of the Bridging Neurons and Symbols for Natural Language Processing and Knowledge Graphs Reasoning at 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (NeusymBridge at LREC-COLING). May 2024* [**LLM Interpretability**]
9. **Xintong Wang**, Xiaoyu Li, Liang Ding, Sanyuan Zhao, and Chris Biemann, “Using Self-Supervised Dual Constraint Contrastive Learning for Cross-modal Retrieval”, *Proceedings of the 26th European Conference on Artificial Intelligence (ECAI). September 2023 (Core Rank A and CCF-B)* [**LVLML Efficient Fine-tuning**]
10. Anton Orell Wiehe, Florian Schneider, Sebastian Blank, **Xintong Wang**, Hans-Peter Zorn, and Chris Biemann, “Language over Labels: Contrastive Language Supervision Exceeds Purely Label-Supervised Classification Performance on Chest X-Rays”, *Proceedings of the 2022 Asia-Pacific Chapter of the Association for Computational Linguistics: Student Research Workshop (SRW at ACL-IJCNLP). November 2022* [**LVLML Efficient Fine-tuning**]
11. **Xintong Wang***, Florian Schneider*, Özge Alacam, Prateek Chaudhury, Chris Biemann, “MOTIF: Contextualized Images for Complex Words to Improve Human Reading”, *Proceedings of the 13th Edition of its Language Resources and Evaluation Conference (LREC). June 2022 (Core Rank B)* [**LVLML Benchmark&Interpretability**]
12. Florian Schneider, Özge Alacam, **Xintong Wang**, and Chris Biemann, “Towards Multi-Modal Text-Image Retrieval to Improve Human Reading”, *Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics: Student Research Workshop (SRW at NAACL). June 2021* [**LVLML Interpretability**]
13. Min Yang, **Xintong Wang**, Yao Lu, Jianming Lv, Ying Shen, and Chengming Li, “Plausibility-promoting Generative Adversarial Network for Abstractive Text Summarization with Multi-task Constraint”, *Information Sciences, 521 (2020): 46-61 (Core Rank A and JCR-Q1)* [**NLP Summarization**]
14. Jianming Lv, and **Xintong Wang**, “Cross-dataset Person Re-identification using Similarity Preserved Generative Adversarial Networks”, *Proceedings of the 11th International Conference on Knowledge Science, Engineering and Management (KSEM), August 2018 (Core Rank B)* [**CV GAN**]
15. Jianming Lv, Qing Li, Qinghui Sun, and **Xintong Wang**, “T-CONV: A Convolutional Neural Network for Multi-scale Taxi Trajectory Prediction”, *Proceedings of the 2018 IEEE International Conference on Big Data and Smart Computing (BigComp), January 2018* [**CV Spatial-temporal**]
16. Haitao Yang, Jianming Lv, Fei Xu, **Xintong Wang**, Yilin Huang, Lanting Xia, and Xuewu Zhu, “Regression Approach for Optimal Purchase of Hosts Cluster in Fixed Fund for Hadoop Big Data Platform”, *Proceedings of the 19th International Conference on Smart City, Transportation and Buildings, June 2017* [**Distributed System**]

17. Jianming Lv, **Xintong Wang**, Fengtao Huang, Junjie Yang, Tianfeng Wu, and Qifa Yan, “TREST: A Hadoop Based Distributed Mobile Trajectory Retrieval System”, *Proceedings of the 2016 IEEE First International Conference on Data Science in Cyberspace (DSC), June 2016* [Distributed Computing]
18. Haibiao Lin, Jianming Lv, Can Yang, Miaoyi Deng, Kaitao Wang, and **Xintong Wang**, “GPS Trajectory Mining: A Survey”, *Journal of Computational Information Systems*, 16 (2014): 6947–6956 [Spatial-temporal]

INVITED TALKS

- Towards Truthfulness, Safeness, and Explainable Foundation Models 08.2024
Host: Prof. Dr. Xingshan Li, Institute of Psychology, Chinese Academy of Sciences
- Mitigating Hallucinations in Large Vision-Language Models (LVLMs) 07.2024
Online Talk
- Probing Large Language Models (LLMs) for Predicting Human Behavioral Data 05.2023
Hosts: Prof. Dr. Markus Hofmann and Prof. Dr. Ralph Radach, Universität Wuppertal

TEACHING

- **Instructor** at University of Hamburg Summer 2025
Master Course: Exercises Statistical Methods of Language Technology
- **Project Mentor** at University of Hamburg Summer 2022/2023
Master Project: Web Interfaces for Language Processing Systems
- **Co-Lecturer** at University of Hamburg Winter 2020/2024
Master Course: Natural Language Processing and the Web

SUPERVISION

Master Theses

- **Jingheng Pan** MSc, at Universität Hamburg 01.04.2025
Thesis: Compositional Understanding and Reasoning in Large Vision-Language Models
- **Xiaoyu Li** MSc, at Technische Universität Berlin & Beijing Institute of Technology 06.03.2024
Thesis: Methods towards Understanding and Application of Foundation Models
- **Fabian Meyer** MSc, at Universität Hamburg 16.04.2023
Thesis: On the Potential and Limits of Zero-Shot Out-of-Distribution of Detection
- **Anton Orell Wiehe** MSc, at Universität Hamburg 10.07.2022
Thesis: Domain Adaptation for Multi-Modal Foundation Models
- **Matthew Ng Cher-Wai** MSc, at Universität Hamburg 06.06.2022
Thesis: Multi-Modal Fictional Backstory Generation using Transformer-Aspect-Backstory Generator
- **Ankit Srivastava** MSc, at Universität Hamburg 13.03.2022
Thesis: Complex Word Identification for Language Learners
- **Florian Schneider** MSc, at Universität Hamburg 27.07.2021
Thesis: Self-Supervised Multi-Modal Text-Image Retrieval Methods to Improve Human Reading
GSCL Best Master’s Thesis Award 2023

Research Assistants & Interns

- **Longqin Jiang** MSc, at Universität Hamburg, Hamburg, Germany 01.05.2024 - Current
Topic: Uncertainty-Aware Methods for Alleviating Ambiguity in Multimodal Translation
- **Yixiao Liu** MSc, at Nanyang Technological University, Singapore City, Singapore 01.10.2023 - Current

Topic: Mitigating Biases in Large Language Models

- **Jingheng Pan** MSc, at Universität Hamburg, Hamburg, Germany 15.09.2023 - Current
Topic: Mitigating Hallucinations in Large Vision-Language Models
- **Xiaoyu Li** MSc, at Technische Universität Berlin, Berlin, Germany 01.10.2022 - 30.09.2023
Topic: Dual Constraint Contrastive in Cross-modal Retrieval
- **Prateek Chaudhury** BSc, at Indian Institute of Technology Delhi, New Delhi, India 01.06.2021 - 31.08.2021
Topic: Reading Material Analysis for Second Language Learners

PROJECTS

- SFB TRR 169 Project C7: Crossmodal Learning for Improving Human Reading
• Funded by German Research Foundation (DFG): 05.2020 - 12.2024, *Doctoral Researcher (Core Participant)*

SCHOLARSHIPS AND AWARDS

- 26th European Conference on Artificial Intelligence (ECAI 2023), Travel Grant 2023
- The 58th Annual Meeting of the Association for Computational Linguistics (ACL 2020), D&I Grant 2020
- South China University of Technology, Graduate Research Scholarships 2016–2019
- South China University of Technology, Bachelor Scholarships 2013–2016
- Tencent Research Scholarship 2016
- Outstanding Winner of Pearl River Delta+ National College Students Innovation Contest, Team Leader 2015
- Honorable Mention of International Mathematical Contest In Modeling Certificate of Achievement 2015

PROFESSIONAL ACTIVITIES

- Organizer and Task Committee: CLEF-2025 SemEval Task 2024
Multilingual Text Detoxification
- Organizer and Task Committee: CLEF-2024 SemEval Task 2023
Multilingual Text Detoxification
- Session Chair: ECAI 2023 Technical Sessions 2023
Speech and Natural Language Processing
- Conference Reviewer: ACL, EMNLP, NAACL, COLING, AISTATS 2025
Multimodal Learning
- Conference Reviewer: ACL, EMNLP, NAACL, LREC-COLING, ECCV, ACM MM, NeurIPS 2024
Multimodal Learning, Interpretability and Analysis of Models for NLP, Integrated Systems and Applications
- Conference Reviewer: ACL, EMNLP, NAACL, EACL, IJCNLP-AAACL, CVPR, ACM MM, ECAI 2023
Multimodal Learning, Sentiment Analysis, Stylistic Analysis, and Argument Mining
- Conference Reviewer: ACL, EMNLP, EACL, IJCNLP-AAACL 2022
Cognitive Modeling and Psycholinguistics, Summarization, Multimodal
- Conference Reviewer: ACL, NAACL, IJCAI/Senior Program Committee, KONVENS/Program Committee 2021
Summarization, Generation, Crossmodal Learning, Multilingual Hate Speech
- Conference Reviewer: ACL, EMNLP, IJCNLP-AAACL 2020
Summarization, Generation, Multidisciplinary
- Conference Reviewer: EMNLP, NLPCC 2019
Summarization, Conversational Bot/QA/IR/Dialogue

- Reviewer for ACL Rolling Review (ARR) 2021–2024
Crossmodal Learning, Machine Translation
- Reviewer for Journal TALLIP 2020–2021
Natural Language Processing
- Reviewer for Journal IEEE Access 2020–2021
Computer Vision, Natural Language Processing

SKILLS

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

LANGUAGES

- **Chinese:** Native speaker
- **English:** Highly proficient in spoken and written (C1)
- **German:** Basic communication skills (A2)