

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 2021–2024
South China University of Technology M.S. in Computer Science, GPA: 3.70/4.00 – Thesis: “Research on Abstractive Summarization”	Guangzhou, China 2016–2019
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 2012–2016

EXPERIENCE

The Chinese Academy of Sciences Visiting Researcher, Advisors: Prof. Dr. Xingshan Li – Language Models – Understand Language Models from Cognition Perspective: Regression and Prediction	Beijing, China Dec. 2022 - Mar. 2023
The Hong Kong Polytechnic University Research Assistant, Advisor: Prof. Dr. Wenjie Li – Summarization – Fusing External Language Models in the Abstractive Summarization	Hong Kong SAR, 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

1. Xiaoyu Li*, **Xintong Wang***, Xingshan Li, and Chris Biemann, “Probe Language Models from Cognition Prospective”, *Under Review (equal contribution)*. May 2023
2. **Xintong Wang**, Xiaoyu Li, Liang Ding, Sanyuan Zhao, and Chris Biemann, “Unsupervised Dual Constraint Contrastive Cross-modal Retrieval”, *Under Review*. April 2023
3. 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 (ACL-IJCNLP SRW)*. November 2022
4. **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

5. 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 (NAACL SRW)*. June 2021
6. 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
7. 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
8. 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
9. 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

TEACHING

- **Project Mentor** at University of Hamburg Summer 2022/2023
Master Project Web Interfaces for Language Processing Systems
- **Co-instructor** at University of Hamburg Winter 2020
Master Course Natural Language Processing for Web

SUPVERSION

Master Theses

- **Fabian Meyer** MSc, at University of Hamburg 16.04.2023
Thesis: On the Potential and Limits of Zero-Shot Out-of-Distribution of Detection
- **Anton Orell Wiehe** MSc, at University of Hamburg 10.07.2022
Thesis: Domain Adaptation for Multi-Modal Foundation Models
- **Matthew Ng Cher-Wai** MSc, at University of Hamburg 06.06.2022
Thesis: Multi-modal Fictional Backstory Generation using Transformer-Aspect-Backstory Generator
- **Ankit Srivastava** MSc, at University of Hamburg 13.03.2022
Thesis: Complex Word Identification for Language Learners

Internships

- **Xiaoyu Li** MSc, at Beijing Institute of Technology, Beijing, China (Remote Intern) 01.10.2022
Topic: Dual Constraint Cross-modal Retrieval
- **Prateek Chaudhury** BSc, at Indian Institute of Technology Delhi, New Delhi, India (Remote Intern) 31.08.2021
Topic: Reading Material Analysis for Second Language Learners

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)

PROJECTS

See full list of projects on www.crossmodal-learning.org/home.html

- SFB TRR 169 Project C7: Crossmodal Learning for Improving Human Reading
Learning to Read, Crossmodal Learning

SCHOLARSHIPS AND AWARDS

- | | |
|--|-----------|
| • South China University of Technology, Graduate Research Scholarships | 2016–2019 |
| • South China University of Technology, Bachelor Scholarships | 2013–2016 |
| • Tencent Research Scholarship | 2016–2016 |
| • Honorable Mention of Mathematical Contest In Modeling Certificate of Achievement | 2015 |

PROFESSIONAL ACTIVITIES

- | | |
|--|-----------|
| • Talk at the University of Wuppertal
<i>Probing Large Language Models (LLMs) for Predicting Human Behavioral Data</i> | 2023 |
| • Reviewer for ACL Rolling Review (ARR)
<i>Crossmodal Learning, Machine Translation</i> | 2021–2022 |
| • Reviewer for Journal TALLIP
<i>Natural Language Processing</i> | 2020–2021 |
| • Reviewer for Journal IEEE Access
<i>Computer Vision, Natural Language Processing</i> | 2020–2021 |
| • Conference Reviewer: ACL
<i>Multimodal Learning</i> | 2023 |
| • Conference Reviewer: ACL, EMNLP, AACL-IJCNLP, EACL
<i>Cognitive Modeling and Psycholinguistics, Summarization, Multimodal</i> | 2022 |
| • Conference Reviewer: ACL, NAACL, IJCAI/Senior Program Committee
<i>Summarization, Generation, Crossmodal Learning</i> | 2021 |
| • Conference Reviewer: ACL, EMNLP, AACL, IJCNLP
<i>Summarization, Generation, Multidisciplinary</i> | 2020 |
| • Conference Reviewer: EMNLP, NLPCC
<i>Summarization, Conversational Bot/QA/IR/Dialogue</i> | 2019 |