

# Xintong Wang

## EDUCATION

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<b>University of Hamburg</b> Ph.D. in Computer Science, Advisor: Prof. Dr. Chris Biemann – Thesis: “Multimodal Representation Learning: Understanding and Leveraging”	Hamburg, Germany 2021–2024
<b>South China University of Technology</b> M.S. in Computer Science, GPA: 3.70/4.00 – Thesis: “Research on Abstractive Summarization”	Guangzhou, China 2016–2019
<b>South China University of Technology</b> B.S. in Computer Science, GPA: 3.40/4.00 – Thesis: “Spatio-temporal Data Storage and Mining Systems”	Guangzhou, China 2012–2016

## EXPERIENCE

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<b>The Chinese Academy of Sciences</b> Visiting Researcher, Advisors: Prof. Dr. Xingshan Li – Cognition-Inspired Models – Cognition-Inspired Language Modeling: Regression and Prediction	Beijing, China Dec. 2022 - Mar. 2023
<b>The Hong Kong Polytechnic University</b> Research Assistant, Advisor: Prof. Dr. Wenjie Li – Summarization – Fusing External Language Models in the Abstractive Summarization	Hong Kong SAR, China Oct. 2018 - Aug. 2019
<b>The Chinese Academy of Sciences</b> 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

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1. **Xintong Wang**, Xiaoyu Li, Sanyuan Zhao, and Chris Biemann, “Unsupervised Dual Constraint Cross-modal Retrieval”, *Under Review*. April 2023
2. 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
3. **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
4. 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

5. 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
6. 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*
7. 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*
8. 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

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- **Co-instructor** at University of Hamburg Winter 2020  
*Natural Language Processing for Web*

## SUPVERSION

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### Master Theses

- **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: Structure-aware Cross-modal Alignment*
- **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

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

## LANGUAGES

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

## PROJECTS

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See full list of projects on [www.crossmodal-learning.org/home.html](http://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

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- 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

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- Reviewer for ACL Rolling Review (ARR) 2021–2022  
*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*
- Conference Reviewer: ACL 2023  
*Multimodal Learning*
- Conference Reviewer: ACL, EMNLP, AACL-IJCNLP, EACL 2022  
*Cognitive Modeling and Psycholinguistics, Summarization, Multimodal*
- Conference Reviewer: ACL, NAACL, IJCAI/Senior Program Committee 2021  
*Summarization, Generation, Crossmodal Learning*
- Conference Reviewer: ACL, EMNLP, AACL, IJCNLP 2020  
*Summarization, Generation, Multidisciplinary*
- Conference Reviewer: EMNLP, NLPCC 2019  
*Summarization, Conversational Bot/QA/IR/Dialogue*