Last update: October 16th, 2022

Xintong Wang

Education

University of Hamburg — Hamburg, Germany
Ph.D. in Computer Science, Advisor: Prof. Dr. Chris Biemann — 2020–2023

South China University of Technology — Guangzhou, China
M.S. in Computer Science, GPA: 3.70/4.00 — 2016–2019

- Thesis: "Research on Abstractive Summarization"

South China University of Technology — Guangzhou, China
B.S. in Computer Science, GPA: 3.40/4.00 — 2012–2016

- Thesis: "Spatio-temporal Data Storage and Mining Systems"

Experience

The Chinese Academy of Sciences — Beijing, China
Visiting Researcher, Advisor: Prof. Dr. Xingshan Li — Dec. 2022 - Jan. 2023

- Cognition-Inspired Models
- Human Cognition-Inspired Uni/Multimodal Models

The Hong Kong Polytechnic University — Hong Kong SAR, China
Research Assistant, Advisor: Prof. Dr. Wenjie Li — Oct. 2018 - Aug. 2019

- Summarization
- Fusing External Language Models in the Abstractive Summarization

The Chinese Academy of Sciences — Shenzhen, China
Visiting Student Researcher, Advisor: Prof. Dr. Min Yang — Mar. 2018 - Oct. 2018

- Summarization
- Generative Adversarial Network for Abstractive Text Summarization with Multi-task Constraint

Publications

1. 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 (AACL-IJCNLP SRW). November 2022*

2. **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*

3. 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*

4. 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*

5. 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), Auguest 2018*

6. 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*

7. 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

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

Supversion

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
- **Florian Schneider** MSc, at University of Hamburg — 27.07.2021
  Thesis: Self-Supervised Multi-Modal Text-Image Retrieval Methods to Improve Human Reading

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

- **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

- 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: EMNLP, AACL-IJCNLP 2022
  Cognitive Modeling and Psycholinguistics, Summariaztion, 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