Liyan Tang

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EDUCATION

The University of Texas at Austin, Austin, TX   Expected May 2026
Ph.D. in Information Studies
Advisors: Ying Ding, Greg Durrett
Close Collaborators: Justin F Rousseau, Yifan Peng

The University of Texas at Austin, Austin, TX   December 2023
M.S. in Computer Science

The University of Texas at Austin, Austin, TX   May 2021
B.S. in Mathematics

RESEARCH WORKS

2023

Liyan Tang, Zhaoyi Sun, Betina Idnay, Jordan G Nestor, Ali Soroush, Pierre A. Elias, Ziyang Xu, Ying Ding, Greg Durrett, Justin Rousseau, Chunhua Weng, Yifan Peng, "Evaluating Large Language Models on Medical Evidence Summarization", npj Digital Medicine, 2023.

Liyan Tang, Yanshan Wang, Ying Ding, Yifan Peng, Greg Durrett and Justin F. Rousseau, "Less Likely Brainstorming: Using Language Models to Generate Alternative Hypotheses", in Findings of the 61st Annual Meeting of the Association for Computational Linguistics (ACL), 2023.

Liyan Tang, Tanya Goyal, Alexander R. Fabbri, Philippe Laban, Jiacheng Xu, Semih Yavuz, Wojciech Kryściński, Justin F. Rousseau, Greg Durrett, "Understanding Factual Errors in Summarization: Errors, Summarizers, Datasets, Error Detectors", in Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (ACL), 2023.

Zhaoyi Sun, Hanley Ong, Patrick Kennedy, **Liyan Tang**, Shirley Chen, Jonathan Elias, Eugene Lucas, George Shih, Yifan Peng, "Evaluating GPT4 on Impressions Generation in Radiology Reports", Radiology, 2023.

2022

Liyan Tang, Shravan Kooragayalu, Yanshan Wang, Ying Ding, Greg Durrett, Justin F. Rousseau, Yifan Peng. "EchoGen: Generating Conclusions from Echocardiogram Notes", in Proceedings of the 21st Workshop on Biomedical Language Processing (BioNLP) at ACL, 2022.

Song Wang, **Liyan Tang**, Akash Majety, Justin F. Rousseau, George Shih, Ying Ding, Yifan Peng. "Trustworthy Assertion Classification through Prompting", in Journal of Biomedical Informatics, 2022.

Song Wang, **Liyan Tang**, Mingquan Lin, George Shih, Ying Ding, Yifan Peng, "Prior Knowledge Enhances Radiology Report Generation", in Proceedings of American Medical Informatics Association (AMIA) Informatics Summit, 2022.

2021
Liyan Tang, Dhruv Rajan, Abhijeet Pradhan, R. Nick Bryan, Greg Durrett, "Making Document-Level Information Extraction Right for the Right Reasons, ArXiv:2110.07686, 2021.

Ajay Jaiswal, **Liyan Tang**, Meheli Ghosh, Justin Rousseau, Yifan Peng, and Ying Ding. "RadBERT-CL: Factually-Aware Contrastive Learning For Radiology Report Classification", in Proceedings of Machine Learning for Health, 2021.

Yan Han, Chongyan Chen, **Liyan Tang**, Ajay Jaiswal, Mingquan Lin, Yifan Peng, Ying Ding. "Using Radiomics as Prior Knowledge for Thorax Disease Classification and Localization in Chest X-rays", in Proceedings of American Medical Informatics Association Annual Symposium (AMIA) Annual Symposium, 2021.

WORK EXPERIENCE

Amazon   May 2023 – Oct 2023
Applied Scientist Intern

PROFESSIONAL SERVICE

Conference Program Committee member (reviewer): EMNLP (2022, 2023), AAAI (2023, 2024), ACL 2023

SKILLS

Programming languages: Python, R, C/C++, Java
Deep Learning Platform: PyTorch, DeepSpeed