

Yibo HU

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RESEARCH INTEREST

Data science, artificial intelligence, natural language processing, with interdisciplinary applications in social sciences, social networks, and cybersecurity.

APPOINTMENT

Postdoctoral Fellow, Georgia Institute of Technology, July 2023 - present

EDUCATION

Ph.D. in Computer Science, The University of Texas at Dallas, June 2023

M.S. in Computer Science, The University of Texas at Dallas, Dec. 2017

M.S. in Electronics & Communication Engineering, Xiamen University, July 2014

B.E. in Communication Engineering, Xiamen University, July 2011

PUBLICATIONS

1. **Yibo Hu**, Yiqiao Jin, Meng Ye, Ajay Divakaran, Srijan Kumar. The Influence of Text Variation on User Engagement in Cross-Platform Content Sharing. Under Review.
2. **Yibo Hu**, Erick Skorupa Parolin, Latifur Khan, Patrick T. Brandt, Javier Osorio, Vito D'Orazio. Leveraging Codebook Knowledge with NLI and ChatGPT for Zero-Shot Political Relation Classification. In the 62nd Annual Meeting of the Association for Computational Linguistics (ACL), 2024. [[link](#)]
3. Yiqiao Jin, Mohit Chandra, Gaurav Verma, **Yibo Hu**, Munmun De Choudhury, Srijan Kumar. Better to Ask in English: Cross-Lingual Evaluation of Large Language Models for Healthcare Queries. In Proceedings of the ACM on Web Conference 2024 (WWW), 2024. [[link](#)]
4. Bing He, **Yibo Hu**, Yeon-Chang Lee, Soyoung Oh, Gaurav Verma, Srijan Kumar. A Survey on the Role of Crowds in Combating Online Misinformation: Annotators, Evaluators, and Creators. Transactions on Knowledge Discovery from Data, 2024 [[link](#)]
5. Sadaf Md Halim, Saquib Irtiza, **Yibo Hu**, Latifur Khan, and Bhavani Thuraisingham. WokeGPT: Improving Counterspeech Generation Against Online Hate Speech by Intelligently Augmenting Datasets Using a Novel Metric. In IEEE International Joint Conference on Neural Networks (IJCNN), 2023. [[link](#)]
6. Erick Skorupa Parolin, **Yibo Hu**, Latifur Khan, Javier Osorio, Patrick T. Brandt, and Vito D'Orazio. Confl-T5: An AutoPrompt Pipeline for Conflict Related Text Augmentation. In IEEE International Conference on Big Data (Big Data), 2022. [[link](#)]
7. **Yibo Hu**, Yu Lin, Erick Skorupa Parolin, Latifur Khan, and Kevin Hamlen. Controllable Fake Document Infilling for Cyber Deception. In Findings of the Association for Computational Linguistics: (EMNLP), 2022. [[link](#)]
8. Khandakar Ashrafi Akbar, Sadaf Md Halim, **Yibo Hu**, Anoop Singhal, Latifur Khan, and Bhavani Thuraisingham. Knowledge Mining in Cybersecurity: From Attack to Defense. In IFIP Annual Conference on Data and Applications Security and Privacy (DBSec), 2022. [[link](#)]

9. Zhuoyi Wang, **Yibo Hu**, Latifur Khan, Kevin Hamlen, and Bhavani Thuraisingham. CAPT: Contrastive Pre-Training based Semi-Supervised Open-Set Learning. In IEEE International Conference on Multimedia Information Processing and Retrieval (MIPR), 2022. [[link](#)]
10. Erick Skorupa Parolin, MohammadSaleh Hosseini, **Yibo Hu**, Latifur Khan, Patrick T. Brandt, Javier Osorio, and Vito D'Orazio. Multi-CoPED: A Multilingual Multi-Task Approach for Coding Political Event Data on Conflict and Mediation Domain. In Proceedings of the AAAI/ACM Conference on AI, Ethics, and Society (AIES), 2022. [[link](#)]
11. **Yibo Hu**, MohammadSaleh Hosseini, Erick Skorupa Parolin, Javier Osorio, Latifur Khan, Patrick Brandt, and Vito D'Orazio. ConflIBERT: A Pre-trained Language Model for Political Conflict and Violence. In Conference of the North American Chapter of the Association for Computational Linguistics (NAACL), 2022. [[link](#)]
12. Erick Skorupa Parolin, **Yibo Hu**, Latifur Khan, Javier Osorio, Patrick T. Brandt, and Vito D'Orazio. CoMe-KE: A New Transformers Based Approach for Knowledge Extraction in Conflict and Mediation Domain. In IEEE International Conference on Big Data (Big Data), 2021. [[link](#)]
13. **Yibo Hu**, and Latifur Khan. Uncertainty-aware reliable text classification. In Proceedings of the ACM SIGKDD Conference on Knowledge Discovery & Data Mining (KDD), 2021. [[link](#)]
14. **Yibo Hu**, Yuzhe Ou, Xujiang Zhao, Jin-Hee Cho, and Feng Chen. Multidimensional uncertainty-aware evidential neural networks. In Proceedings of the AAAI Conference on Artificial Intelligence (AAAI), 2021. [[link](#)]

TEACHING EXPERIENCE

Instructor, Georgia Institute of Technology

CSE 8803 Data Science for Social Networks (Graduate), Fall 2023

Teaching Assistant, UT Dallas

CS6375 Machine Learning (Graduate), Summer 2018, Spring 2019, Spring 2020

CS6364 Artificial Intelligence (Graduate), Spring 2018, Fall 2020

CS6350 Big Data Management and Analytics (Graduate), Spring 2020

CS4395 Human Language Technologies (Undergraduate), Fall 2019

CS4347 Database Systems (Undergraduate), Fall 2019

CS4375 Introduction to Machine Learning (Undergraduate), Fall 2018

CS6320 Natural Language Processing (Graduate), Fall 2018

CS3345 Data Structures and Introduction to Algorithmic Analysis (Undergraduate), Spring 2018

MENTORING EXPERIENCE

Graduate Research Mentorship, UT Dallas

Mentored three graduates on master's theses and paper publications in social science multilingual language model research, Summer 2022 - Spring 2023

Undergraduate Research Mentorship, UT Dallas

Clark Summer Research Program, Summer 2023

ACM Student Research Project: Adversarial Attacks on Hate Speech Detection, Spring 2023

Data Science Summer Camps, Summer 2021

SERVICE

Program Committee or Reviewers

Annual Meeting of the Association for Computational Linguistics (ACL): 2023, 2024
ACM Transactions on Internet Technology (TOIT): 2021
Conference on Empirical Methods in Natural Language Processing (EMNLP): 2022, 2023, 2024
International Conference on Artificial Intelligence and Statistics (AISTATS): 2021
International Conference on Database Systems for Advanced Applications (DASFAA): 2023
International Joint Conference on Neural Networks (IJCNN): 2024, 2025
International Joint Conferences on Artificial Intelligence (IJCAI): 2023 (Received the Distinguished PC Member Award), 2024, 2025
North American Chapter of the Association for Computational Linguistics (NAACL): 2024
SIGKDD Conference on Knowledge Discovery and Data Mining (KDD): 2020, 2021, 2023, 2024
SIAM International Conference on Data Mining (SDM): 2022, 2024
Web Conference (WWW): 2024, 2025

TALKS

“Transfer Learning in Natural Language Processing for Political Science and Cyber Security”

- Northern Illinois University, Mar. 2023
- Boise State University, Mar. 2023
- Texas A&M University-Corpus Christi, Mar. 2023

“Recent Advances in Big Data Natural Language Processing”, Big Data Management and Analytics class, UT Dallas, Feb. 2023

“Uncertainty Quantification in Natural Language Processing”, Recent Advances in Computing class, UT Dallas, Nov. 2022

“Fake Document Generation for Cyber Deception”, invited talk, CVS Health team, UT Dallas, Nov. 2022

“Improving Reliability in Deep Learning Models’ Prediction”, Yahoo Targeting Science group, June 2022

ACADEMIC AND INDUSTRY INTERNSHIPS

Research Intern, Targeting Science Group at Yahoo, May 2022- Aug. 2022

Research Assistant, Big Data Analytics Lab at UT Dallas, Sept. 2020- June 2023

Lead Research Assistant, Power Optimization Center at Vistra Energy, TX, Feb. 2020-Aug. 2020

update on 1/8/2025