

Xiao Li

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EDUCATION

- **The University of Texas at Dallas** Richardson, USA
Ph.D - Computer Science
Advisor: Prof. Weili Wu
August 2019 - May 2024
- **Dalian University of Technology** Dalian, China
ME - Software Engineering
September 2016 - June 2019
- **Dalian University of Technology** Dalian, China
BE - Software Engineering
September 2012 - June 2016

WORKING EXPERIENCE

- **The University of Texas at Dallas** August 2019 - Present
Teaching Assistant
 - **Lecturing and Grading:** Give lectures in class upon instructor's request (CS 6360, CS 4347, CS 4389, CS 3354)
 - **Instructing Projects:** For project course works, instruct students to complete the projects (CS 6360, CS 4347, CS 4389)
- **Takeda Pharmaceuticals** May 2023 - August 2023
Data Science Institute - Intern
 - **Adverse Event Report Classification:** Use NLP techniques to process the narratives of adverse events. Apply classification models, i.e SVM, Random Forest, transformer-based NN, to determine whether adverse events reveals association with a specific drug.
 - **Impact:** With the help of well-built classification model on case narratives, the whole decision pipeline is shortened and saves notable labor overhead.
- **CAST/UTD STEM Summer Camp** May 2022 - Sep 2022
Research Mentor
 - **Teach high-school students on hands-on research experience:** Introduced Blockchain and its working theory
 - **Lead students implemented a blockchain-based contact tracing system:** Won Best Community Impact Award

PROFESSIONAL MEMBERSHIPS

- IEEE Member • ACM Member • AAAI Member

PUBLICATIONS

1. **Blockchain Driven Privacy Preserving Contact Tracing Framework in Pandemics.**
Xiao Li, Weili Wu and Tiantian Chen.
IEEE Transactions on Computational Social Systems (IEEE TCSS), 2024: 1-11, DOI: [10.1109/TCSS.2024.3351191](https://doi.org/10.1109/TCSS.2024.3351191)
2. **Machine Learning with Low Resource Data from Psychiatric Clinics.**
Hongmin Du, Neil Chen, Xiao Li, Miklos Vasarhelyi.
The 16th International Conference on Combinatorial Optimization and Applications (COCOA), 2023, vol 14462, DOI: [10.1007/978-3-031-49614-1_34](https://doi.org/10.1007/978-3-031-49614-1_34)
3. **Recent Advances of Blockchain and Its Applications.**
Xiao Li and Weili Wu.
IEEE Journal of Social Computing, 2022. 3(4): 356-394, DOI: [10.23919/JSC.2022.0016](https://doi.org/10.23919/JSC.2022.0016)
4. **Bitcoin Daily Price Prediction Through Understanding Blockchain Transaction Pattern with Machine Learning Methods.**
Xiao Li and Linda Du.
Journal of Combinatorial Optimization (JOCO), 2022. 45(1): 4, DOI: [10.1007/s10878-022-00949-9](https://doi.org/10.1007/s10878-022-00949-9)
5. **Energy efficiency optimization for multiple chargers in Wireless Rechargeable Sensor Networks.**
Yi Hong, Chuanwen Luo, Deying Li, Zhibo Chen, Xiyun Wang, and Xiao Li.
Theoretical Computer Science (TCS), 2022. 922: 193-205, DOI: [10.1016/j.tcs.2022.04.024](https://doi.org/10.1016/j.tcs.2022.04.024)
6. **A Multi-window Bitcoin Price Prediction Framework on Blockchain Transaction Graph.**
Xiao Li and Linda Du.
The 15th International Conference on Algorithmic Applications in Information and Management (AAIM), 2021: 317-328, DOI: [10.1007/978-3-030-93176-6_27](https://doi.org/10.1007/978-3-030-93176-6_27)

7. **Maximizing Energy Efficiency for Charger Scheduling of WRSNs.**

Yi Hong, Chuanwen Luo, Zhibo Chen, Xiyun Wang, and **Xiao Li**.

The 15th International Conference on Algorithmic Applications in Information and Management (AAIM), 2021: 111-122, DOI: [10.1007/978-3-030-93176-6_10](https://doi.org/10.1007/978-3-030-93176-6_10)

8. **A Universal Method Based on Structure Subgraph Feature for Link Prediction over Dynamic Networks.**

Xiao Li, Wenxin Liang, Xianchao Zhang, Xinyue Liu and Weili Wu.

IEEE 39th International Conference on Distributed Computing Systems (IEEE ICDCS), 2019: 1210-1220, DOI: [10.1109/ICDCS.2019.00122](https://doi.org/10.1109/ICDCS.2019.00122)

9. **Influence Maximization in Signed Social Networks With Opinion Formation.**

Wenxin Liang, Chengguang Shen, **Xiao Li**, Ryo Nishide, Ian Piumarta and Hideyuki Takada.

IEEE Access, 2019. 7: 68837-68852, DOI: [10.1109/ACCESS.2019.2918810](https://doi.org/10.1109/ACCESS.2019.2918810)

10. **Supervised ranking framework for relationship prediction in heterogeneous information networks.**

Wenxin Liang, **Xiao Li**, Xiaosong He, Xinyue Liu, Xianchao Zhang.

Applied Intelligence (Appl. Intell.), 2018. 48(5): 1111-1127, DOI: [10.1007/s10489-017-1044-7](https://doi.org/10.1007/s10489-017-1044-7)

Submitted for Publication:

11. **A Blockchain-empowered Multi-Aggregator Federated Learning Architecture in Edge Computing with Deep Reinforcement Learning Optimization.**

Xiao Li, Weili Wu.

IEEE Transactions on Computational Social Systems (IEEE TCSS), Under review, 2023.

12. **A Novel Framework for Textual Extraction on Cybersecurity Disclosure.**

Hongmin Du, **Xiao Li**, Miklos Vasarhelyi and Won Gyun No.

Management Science, Under review, 2023.

HONORS AND AWARDS

- Jan Van der Ziel Fellowship - The University of Texas at Dallas, April, 2023
- Best Community Impact Award - CAST/UTD STEM Summer Camp, August, 2022
- Teaching Assistantship - The University of Texas at Dallas, August, 2019
- Best Thesis Award - Dalian University of Technology, June, 2019
- Excellent Graduate Student - Dalian University of Technology, December, 2017
- Excellent Undergraduate - Dalian University of Technology, January, 2016
- National Inspiration Scholarship - Dalian University of Technology, November, 2015
- Excellent Academic Scholarship (Second Prize) - Dalian University of Technology, October, 2015

ACADEMIC SERVICE

- **Web Chair, Registration Chair:** The 29th International Computing and Combinatorics Conference (COCOON 2023)
- **Web Chair, Registration Chair, Publication Chair:** The 16th Annual International Conference on Combinatorial Optimization and Applications (COCOA 2023)
- **Publication Chair:** The 15th EAI International Conference on Wireless Internet (EAI WiCON 2022)
- **Web Chair, Registration Chair:** The 14th Annual International Conference on Combinatorial Optimization and Applications (COCOA 2020)
- **Journal and Conference Reviewer:**
 - Journal of Industrial Information Integration, 2023
 - Journal of Business Research, 2021
 - Information Sciences, 2020
 - DASFAA 2020: 25th International Conference on Database Systems for Advanced Applications
 - KDD 2020, 26th ACM Sigkdd Conference on Knowledge Discovery and Data Mining
 - ICDCS 2019: The 39th IEEE International Conference on Distributed Computing Systems
 - ICDM 2018: The 18th IEEE International Conference on Data Mining
 - IJCAI 2018: The 27th International Joint Conference on Artificial Intelligence
 - WSDM 2017: The 10th ACM International Conference on Web Search and Data Mining
 - PAKDD 2017: The 21th Pacific-Asia Conference on Knowledge Discovery and Data Mining