





Xiao Han

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EDUCATION

Utah State University Logan, UT
Ph.D., Computer Science GPA:3.91, 2020 - Expected May 2024

The George Washington University Washington, DC
Master of Science, Data Analytics GPA:3.76, 2018 – 2020
Advisor: [Dr. Shuhan Yuan](#)

Oregon State University Corvallis, OR
Master of Engineering, Computer Science GPA:3.63, 2014 - 2017

Shandong University Jinan, Shandong, China
Bachelor of Engineering, Computer Science and Technology 2008 - 2012
Bachelor of Economics, Finance

TECHNICAL SKILLS

- Programming Languages: C, C++, Java, Haskell, Idris, Python
- Software: Minitab, Tableau, Microsoft Excel
- Database Systems: MySQL, SQLite, MongoDB, ArangoDB, Google Cloud Platform
- Certification: Certified Information Systems Auditor (CISA)

WORKING EXPERIENCE

Great Wall Securities, Shandong Branch Jinan, Shandong, China
Quant Researcher in Financial Research Department Jan 2018 – Aug 2018

- Collected and pre-processed financial data from Wind, such as extreme value elimination and data standardization.
- Tested the validity of each factor, choosing effective factors according to certain indexes.

Pan-China Certified Public Accountants Jinan, Shandong, China
Risk Assurance Aug 2013 – Sep 2014

- Mainly responsible for the IT auditing and IT auditing review work in the annual reporting auditing work. Major customers include state-owned energy company, listed pharmaceutical company, etc.
- Perform IT Application Control, auditing accuracy, integrity, legitimacy of data entry, accuracy of data processing and confidentiality of data output, involving various execution systems.

China CITIC Bank Jinan, Shandong, China
Information Technology Assistant Mar 2012 – Aug 2013

- Develop and maintain the core business system of bank. Bank server daily monitoring.
- Update POS and ATM system.

RESEARCH EXPERIENCE

Research Assistant

Utah State University, Department of Computer Science

Logan, UT
Fall 2020 – Summer 2021

- Designed a novel interpretable log anomaly detection framework that can detect abnormal log sequences and give attributions to the anomalous.
- Developed cross-system log anomaly detection for supercomputers with transfer learning.

Teaching Assistant

Utah State University, Department of Computer Science

Logan, UT
Fall 2021 – Spring 2022

- CS 5665 Introduction to Data Science
- CS 6665 Data Mining

Research Assistant

Utah State University, Department of Computer Science

Logan, UT
Summer 2022 – Ongoing

- Designed a novel reinforcement learning-based few-shot log anomaly detection framework that can detect and classify anomalous.
- Developed counterfactual fairness anomaly detection framework.
- Proposed an interpretable anomaly detection framework by using algorithmic recourse.

PUBLICATIONS

- [1] Han, Xiao, et al. "Few-shot Anomaly Detection and Classification Through Reinforced Data Selection." 2022 IEEE International Conference on Data Mining (ICDM). IEEE, 2022.
- [2] Han, Xiao, and Shuhan Yuan. "Unsupervised Cross-system Log Anomaly Detection via Domain Adaptation." Proceedings of the 30th ACM International Conference on Information & Knowledge Management. 2021.
- [3] Han, Xiao, et al. "InterpretableSAD: Interpretable Anomaly Detection in Sequential Log Data." 2021 IEEE International Conference on Big Data (Big Data). IEEE, 2021.

SERVICE

- ACM Transactions on Modeling and Performance Evaluation of Computing Systems Reviewer - 2022
- Frontiers in Big Data Reviewer - 2022
- Elsevier Computers & Security Reviewer - 2022
- IEEE Transactions on Information Forensics and Security Reviewer - 2022
- IEEE Transactions on Computational Social Systems Reviewer - 2022
- IEEE/CAA Journal of Automatica Sinica Reviewer - 2022
- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (External Reviewer) - 2022
- International Journal of Data Science and Analytics Reviewer – 2022
- IEEE International Conference on Big Data Session Chair / Student Volunteer - 2021

AWARDS

- IEEE International Conference on Big Data 2021 Student Travel Award
- SIGIR Student Travel Award for CIKM 2021