





# Xiao Han

 [linkedin.com/in/xiao-han/](https://www.linkedin.com/in/xiao-han/)  
 [github.com/hanxiao0607](https://github.com/hanxiao0607)  
 [hanxiao2099@gmail.com](mailto:hanxiao2099@gmail.com)  
 +1 (541) 908-8790

## EDUCATION

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<b>Utah State University</b> <i>Ph.D., Computer Science</i>	Logan, UT GPA:3.91, 2020 - Expected May 2024
<b>The George Washington University</b> <i>Master of Science, Data Analytics</i> Advisor: <a href="#">Dr. Shuhan Yuan</a>	Washington, DC GPA:3.76, 2018 – 2020
<b>Oregon State University</b> <i>Master of Engineering, Computer Science</i>	Corvallis, OR GPA:3.63, 2014 - 2017
<b>Shandong University</b> <i>Bachelor of Engineering, Computer Science and Technology</i> <i>Bachelor of Economics, Finance</i>	Jinan, Shandong, China 2008 - 2012

## TECHNICAL SKILLS

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- 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

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<b>Great Wall Securities, Shandong Branch</b> <i>Quant Researcher in Financial Research Department</i>	Jinan, Shandong, China Jan 2018 – Aug 2018
<ul style="list-style-type: none"><li>• Collected and pre-processed financial data from Wind, such as extreme value elimination and data standardization.</li><li>• Selected securities with factor security-selection model.</li><li>• Tested the validity of each factor, choosing effective factors according to certain indexes.</li></ul>	
<b>Pan-China Certified Public Accountants</b> <i>Risk Assurance</i>	Jinan, Shandong, China Aug 2013 – Sep 2014
<ul style="list-style-type: none"><li>• 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.</li><li>• Perform IT Application Control, auditing accuracy, integrity, legitimacy of data entry, accuracy of data processing and confidentiality of data output, involving various execution systems.</li></ul>	
<b>China CITIC Bank</b> <i>Information Technology Assistant</i>	Jinan, Shandong, China Mar 2012 – Aug 2013
<ul style="list-style-type: none"><li>• Develop and maintain the core business system of bank. Bank server daily monitoring.</li></ul>	

- Update POS and ATM system.

## RESEARCH EXPERIENCE

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### 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

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[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

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- 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

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