




Yue Zhao

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| CONTACT INFORMATION |  yzhao010@usc.edu | 213-821-2369 |
| |  github.com/yzhao062 | CS Department, SAL 104 |
| |  linkedin.com/in/yzhao062 | Los Angeles, CA |
| |  viterbi-web.usc.edu/~yzhao010/ | United States, 90089 |
| |  USC Faculty Directory | Department of Computer Science |
| |  Google Scholar | University of Southern California |

RESEARCH SUMMARY I focus on building *trustworthy, knowledge-driven, and generative AI systems* to address complex, real-world challenges. My research integrates **robustness, graph learning, and generative AI**, developing interconnected solutions that ensure reliability, extract insights from structured data, and drive scientific innovation.

- 1. Robust and Trustworthy AI Across Domains:** Developing reliable AI systems that detect outliers, anomalies, and out-of-distribution (OOD) data to ensure trust, fairness, and transparency. These methods span multiple areas, including finance, security, and healthcare.
- 2. Graph Learning and Structured Knowledge for Decision-Making:** Applying graph-based models to extract insights from interconnected data, supporting tasks like OOD detection, neural architecture search (NAS), and anomaly detection on graphs. Graph learning powers AI applications in healthcare, financial risk modeling, and molecular science, enabling scalable, domain-specific solutions.
- 3. Generative AI and Foundation Models for AI for Science (AI4Science):** Leveraging generative AI, LLMs, and foundation models to solve complex scientific challenges and inform decision-making. These models address tasks like synthetic clinical trials, drug discovery, and political forecasting, driving breakthroughs in AI4Science.

(1) Robust and Trustworthy AI Systems



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| <input type="checkbox"/> Out-of-distribution (OOD) Detection | <input type="checkbox"/> Anomaly Detection |
| <input type="checkbox"/> Outlier Detection | <input type="checkbox"/> Trustworthiness |

(2) Graph Learning and Structured Knowledge for Decision-Making

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| <input type="checkbox"/> Graph Neural Networks (GNNs) | <input type="checkbox"/> Anomaly Detection on Graphs |
| <input type="checkbox"/> Graph Open Set Learning | <input type="checkbox"/> Graph-based Knowledge Discovery |

(3) Generative AI and Foundation Models for AI4Science

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| <input type="checkbox"/> Large Language Models (LLMs) | <input type="checkbox"/> Clinical Trial Simulation |
| <input type="checkbox"/> Foundation Models | <input type="checkbox"/> Drug Discovery |
| <input type="checkbox"/> AI4Science | <input type="checkbox"/> LLMs for Political Science |

OPEN-SOURCE HIGHLIGHTS  **YZHAO062** **Open-source Contribution:** I have led or contributed as a core developer to more than 10 ML open-source initiatives. Popular ones include PyOD (A Python Toolbox for Scalable Outlier Detection), ADBench (Anomaly Detection Benchmark), and TDC (An ML Data Hub for Drug Discovery). My works receive  **20,000 GitHub Stars** and 23,000,000 downloads as of November 15, 2024.

FULL-TIME PROFESSIONAL EXPERIENCE **University of Southern California**
Thomas Lord Department of Computer Science
Assistant Professor (Tenure-Track) Aug. 2023 - Present

- Foundations Of Robust Trustworthy Intelligent Systems (**FORTIS**) Lab: [Link](#)
- USC Machine Learning Center (MaSCle): [Link](#)

PwC Canada

Consulting & Deals

Senior Consultant (Data Scientist)

Aug. 2017 - Jun. 2019

Consultant (Data Scientist)

Feb. 2017 - Jul. 2017

EDUCATION

Carnegie Mellon University

Pittsburgh, PA

Ph.D. in Information Systems and Management

Sep. 2019 - May. 2023

- **Affiliation:** CMU automated learning systems group (Catalyst) and Data Analytics Techniques Algorithms (DATA) Lab
- **Advisors and Mentors:** CMU: Prof. Leman Akoglu, Prof. Zhihao Jia, and Prof. George Chen. I collaborate with Prof. Jure Leskovec at Stanford, and Prof. Philip S. Yu at UIC.

University of Toronto

Toronto, ON

Master of Science in Computer Science

Sep. 2015 - Dec. 2016

University of Cincinnati

Cincinnati, OH

Bachelor of Science in Computer Engineering

Sep. 2010 - May. 2015

Minor: *Computer Science and Mathematics*

AWARDS, GRANTS, AND FUNDING

As Principal Investigator (August 2023 onwards)

Capital One Research Awards

\$50,000 Oct. 2024

Best Paper Award @ KDD Resource-Efficient Learning Workshop

Recognition Aug. 2024

NSF ATD

\$110,000 Aug. 2024

NSF POSE

\$395,000 Jun. 2024

Google Cloud Research Innovators

Recognition Mar. 2024

AAAI New Faculty Highlights

Recognition Feb. 2024

*Note: Monetary values represent **my portion** of the funding. Total project budgets may be larger.*

Prior to Principal Investigator Role (Before August 2023)

Meta 2022 AI4AI Research Award (student co-PI)

Recognition Oct. 2022

The Norton Labs Graduate Fellowship

Fellowship Mar. 2022

CMU Presidential Fellowship

Fellowship 2019

Mitacs-Accelerate Research and Development Funding

Funding 2016-2017

University Global Award and Scholarship

Scholarship 2010-2015

Mantei/Mae Award & Scholar

Award 2012-2015

Engineer of the Month

Recognition Jun. 2014

Note: Monetary values are omitted for awards and recognitions received prior to PI role.

PUBLICATIONS

 SCHOLAR

 RESEARCH

Preprints & Under Submission

49. Shawn Li, Huixian Gong, Hao Dong, Tiankai Yang, Zhengzhong Tu, Yue Zhao
DPU: Dynamic Prototype Updating for Multimodal Out-of-Distribution Detection
Under submission
arXiv preprint arXiv:2411.08227

48. Haoyan Xu, Kay Liu, Zhengtao Yao, Philip S. Yu, Kaize Ding, Yue Zhao
LEGO-Learn: Label-Efficient Graph Open-Set Learning
Under submission
arXiv preprint arXiv:2410.16386

47. Zerui Xu, Fang Wu, Tianfan Fu, Yue Zhao
Retrieval-Reasoning Large Language Model-based Synthetic Clinical Trial Generation
Under submission
arXiv preprint arXiv:2410.12476

46. Yuehan Qin, Yichi Zhang, Yi Nian, Xueying Ding, Yue Zhao
MetaOOD: Automatic Selection of OOD Detection Models
Under submission
arXiv preprint arXiv:2410.03074

45. Nan Hao, Yuangang Li, Kecheng Liu, Songtao Liu, Yingzhou Lu, Bohao Xu, Chenhao Li, Jintai Chen, Ling Yue, Tianfan Fu, Xiyang Hu, Xiao Wang, Yue Zhao
Artificial Intelligence-Aided Digital Twin Design: A Systematic Review
Ongoing work and to be submitted
<https://www.preprints.org/manuscript/202408.2063>
44. Mehrdad Kiamari, Mohammad Kiamari, Bhaskar Krishnamachari, Yue Zhao
GKAN: Graph Kolmogorov-Arnold Networks
Under submission
arXiv preprint arXiv:2406.06470
43. Minqi Jiang, Chaochuan Hou, Ao Zheng, Xiyang Hu, Songqiao Han, Hailiang Huang, Xiangnan He, Philip S. Yu, Yue Zhao
Weakly Supervised Anomaly Detection: A Survey
Under submission
arXiv preprint arXiv:2302.04549

Peer-reviewed Journal Papers

42. Hao Dong, Gaetan Frusque, Yue Zhao, Eleni Chatzi, Olga Fink
NNG-Mix: Improving Semi-supervised Anomaly Detection with Pseudo-anomaly Generation
IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2024 (Accepted)
41. Ling Yang*, Zhilong Zhang*, Yang Song, Shenda Hong, Runsheng Xu, Yue Zhao, Wentao Zhang, Bin Cui, Ming-Hsuan Yang
Diffusion Models: A Comprehensive Survey of Methods and Applications
ACM Computing Surveys (CSUR), 2023
(*equal contribution)
40. Yue Zhao*, Martin Q. Ma*, Xiaorong Zhang, Leman Akoglu
The Need for Unsupervised Outlier Model Selection: A Review and Evaluation of Internal Evaluation Strategies
ACM SIGKDD Explorations Newsletter (SIGKDD Explor.), 2023
(*equal contribution)
39. Kexin Huang*, Tianfan Fu*, Wenhao Gao*, Yue Zhao, Yusuf Roohani, Jure Leskovec, Connor W. Coley, Cao Xiao, Jimeng Sun, Marinka Zitnik
Artificial Intelligence Foundation for Therapeutic Science
Nature Chemical Biology (NCHEMB), 2022
(*equal contribution)
38. Yue Zhao*, Zheng Li*, Xiyang Hu, Nicola Botta, Cezar Ionescu, George H. Chen
ECOD: Unsupervised Outlier Detection Using Empirical Cumulative Distribution Functions
IEEE Transactions on Knowledge and Data Engineering (TKDE), 2022.
(*equal contribution)
37. Yue Zhao, Zain Nasrullah, Zheng Li
PyOD: A Python Toolbox for Scalable Outlier Detection
Journal of Machine Learning Research (JMLR), 2019.

Peer-reviewed Conference & Workshop Papers (with proceedings)

36. Hao Dong, Yue Zhao, Eleni Chatzi, Olga Fink
MultiOOD: Scaling Out-of-Distribution Detection for Multiple Modalities
Advances in Neural Information Processing Systems (NeurIPS), **Spotlight**, 2024
35. Xueying Ding, Yue Zhao, Leman Akoglu
Fast Unsupervised Deep Outlier Model Selection with Hypernetworks
ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2024
34. Lichao Sun, Yue Huang, Haoran Wang, Siyuan Wu, Qihui Zhang, Chujie Gao, Yixin Huang, Wenhan Lyu, Yixuan Zhang, Xiner Li, Zhengliang Liu, Yixin Liu, Yijue Wang, Zhikun Zhang, 50+ collaborative authors, Yue Zhao

- TrustLLM: Trustworthiness in Large Language Models
International Conference on Machine Learning (ICML), 2024
33. Songtao Liu, Hanjun Dai, Yue Zhao, Peng Liu
Preference Optimization for Molecule Synthesis with Conditional Residual Energy-based Models
International Conference on Machine Learning (ICML), **Oral**, 2024
 32. Yue Zhao, Leman Akoglu
Hyperparameter Optimization for Unsupervised Outlier Detection
International Conference on Automated Machine Learning (AutoML), 2024
 31. Yue Zhao
Towards Reproducible, Automated, and Scalable Anomaly Detection
AAAI Conference on Artificial Intelligence (AAAI), *New Faculty Highlights*, 2024
 30. Minqi Jiang*, Chaochuan Hou*, Ao Zheng*, Songqiao Han, Hailiang Huang[†], Qingsong Wen, Xiyang Hu[†], Yue Zhao[†]
ADGym: Design Choices for Deep Anomaly Detection.
Advances in Neural Information Processing Systems (NeurIPS), 2023
([†]Corresponding author)
 29. Jaemin Yoo, Yue Zhao, Lingxiao Zhao, Leman Akoglu
DSV: An Alignment Validation Loss for Self-supervised Outlier Model Selection
European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD), 2023
 28. Peng Xu, Lin Zhang, Xuanzhou Liu, Jiaqi Sun, Yue Zhao, Haiqin Yang, Bei Yu
Do Not Train It: A Linear Neural Architecture Search of Graph Neural Networks
International Conference on Machine Learning (ICML), 2023
 27. Yue Zhao, Guoqing Zheng, Subhabrata Mukherjee, Robert McCann, Ahmed Awadallah
ADMoe: Anomaly Detection with Mixture-of-Experts from Noisy Labels
Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI), 2023
 26. Yue Zhao, George H. Chen, Zhihao Jia
TOD: GPU-accelerated Outlier Detection via Tensor Operations
International Conference on Very Large Data Bases (VLDB), 2023
 25. Songqiao Han*, Xiyang Hu*, Hailiang Huang*, Minqi Jiang*, Yue Zhao*
ADBench: Anomaly Detection Benchmark
Advances in Neural Information Processing Systems (NeurIPS), 2022
(*equal contribution & the corresponding author)
 24. Yue Zhao*, Kay Liu*, Yingdong Dou*, et al.
Benchmarking Node Outlier Detection on Graphs
Advances in Neural Information Processing Systems (NeurIPS), 2022
(*equal contribution)
 23. Yue Zhao, Xiaorong Zhang, Leman Akoglu
ELECT: Toward Unsupervised Outlier Model Selection
IEEE International Conference on Data Mining (ICDM), 2022.
Regular paper. Acceptance rate 9.77% (85/870); overall acceptance 20% (174/870).
 22. Zhiming Xu, Xiao Huang, Yue Zhao, Yushun Dong, Jundong Li
Contrastive Attributed Network Anomaly Detection with Data Augmentation
Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), 2022
Acceptance rate 19%.
 21. Yue Zhao, Ryan A. Rossi, Leman Akoglu
Automatic Unsupervised Outlier Model Selection
Advances in Neural Information Processing Systems (NeurIPS), 2021
Acceptance rate 26%.
 20. Kwei-Herng Lai, Daochen Zha, Junjie Xu, Yue Zhao, Guanchu Wang, Xia Hu
Revisiting Time Series Outlier Detection: Definitions and Benchmarks
Advances in Neural Information Processing Systems (NeurIPS), 2021
 19. Kexin Huang*, Tianfan Fu*, Wenhao Gao*, Yue Zhao, Yusuf Roohani, Jure Leskovec, Connor W. Coley, Cao Xiao, Jimeng Sun, Marinka Zitnik

- Therapeutics Data Commons: Machine Learning Datasets and Tasks for Drug Discovery and Development
Advances in Neural Information Processing Systems (NeurIPS), 2021
 (*equal contribution)
18. Yue Zhao*, Xiyang Hu*, Cheng Cheng, Cong Wang, Changlin Wan, Wen Wang, Jianing Yang, Haoping Bai, Zheng Li, Cao Xiao, Yunlong Wang, Zhi Qiao, Jimeng Sun, Leman Akoglu
 SUOD: Accelerating Large-scale Unsupervised Heterogeneous Outlier Detection
Conference on Machine and Learning Systems (MLSys), 2021.
 Acceptance rate 23.5% (52/221). (*equal contribution)
 17. Kwei-Herng Lai*, Daochen Zha*, Guanchu Wang, Junjie Xu, Yue Zhao, Devesh Kumar, Yile Chen, Purav Zumkhawaka, Minyang Wan, Diego Martinez and Xia Ben Hu
 TODS: An Automated Time Series Outlier Detection System (Demo paper)
Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI), 2021.
 (*equal contribution)
 16. Meng-Chieh Lee, Yue Zhao, Aluna Wang, Pierre Jinghong Liang, Leman Akoglu, Vincent S. Tseng, Christos Faloutsos
 AutoAudit: Mining Accounting and Time-Evolving Graphs
IEEE International Conference on Big Data (Big Data), 2020
 15. Changlin Wan, Dongya Jia, Yue Zhao, Wennan Chang, Sha Cao, Xiao Wang, and Chi Zhang
 A Data Denoising Approach to Optimize Functional Clustering of Single Cell RNA-sequencing Data
IEEE International Conference on Bioinformatics and Biomedicine (BIBM), 2020
 14. Zheng Li, Yue Zhao, Nicola Botta, Cezar Ionescu, Xiyang Hu
 COPOD: Copula-Based Outlier Detection
IEEE International Conference on Data Mining (ICDM), 2020.
 13. Zheng Li, Yue Zhao, Jialin Fu
 SYNC: A Copula based Framework for Generating Synthetic Data from Aggregated Sources
IEEE International Conference on Data Mining Workshops (ICDMW), 2020.
 12. Yiqun Mei, Yue Zhao, Wei Liang
 DSR: An Accurate Single Image Super Resolution Approach for Various Degradations
IEEE International Conference on Multimedia and Expo (ICME), 2020, London, UK.
 11. Yue Zhao, Xuejian Wang*, Cheng Cheng*, Xueying Ding*
 Combining Machine Learning Models and Scores using combo Library (Demo paper)
Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI), 2020.
 (*equal contribution)
 10. Zain Nasrullah, Yue Zhao
 Music Artist Classification with Convolutional Recurrent Neural Networks
IEEE International Joint Conference on Neural Networks (IJCNN), 2019, Hungary.
 9. Yue Zhao, Zain Nasrullah, Maciej K. Hryniewicki, Zheng Li
 LSCP: Locally Selective Combination in Parallel Outlier Ensembles
SIAM International Conference on Data Mining (SDM), 2019, Calgary, Canada.
 Acceptance rate 22.7% (90/397).
 8. Yue Zhao, Maciej K. Hryniewicki
 XGBOD: Improving Supervised Outlier Detection with Unsupervised Representation Learning
IEEE International Joint Conference on Neural Networks (IJCNN), 2018, Rio, Brazil.
 7. Yue Zhao, Maciej K. Hryniewicki, Francesca Cheng, Boyang Fu, Xiaoyu Zhu
 Employee Turnover Prediction with Machine Learning: A Reliable Approach
Intelligent System Conference (Intellisys), 2018, London, UK.
 Acceptance rate 34% (194/568).
 6. Yue Zhao*, Zhongtian Qiu*, Yiqing Yang*, Weiwei Li*, Mingming Fan
 An Empirical Study of Touch-based Authentication Methods on Smartwatches
ACM International Symposium on Wearable Computers (ISWC), 2017, Maui, USA.
 Acceptance rate 25.6% (23/90). (*equal contribution)

Peer-reviewed Workshop Papers (without proceedings)

5. Jiaqing Xie, Yue Zhao, Tianfan Fu.
DeepProtein: Deep Learning Library and Benchmark for Protein Sequence Learning
NeurIPS Workshop on AI for New Drug Modalities (AIDrugX), **Spotlight**, 2024.
4. Yuehan Qin, Yichi Zhang, Yue Zhao
MetaOOD: Meta-learning for Automatic Out-of-Distribution Detection Model Selection
ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD Workshop on Resource-Efficient Learning for Knowledge Discovery), 2024. 🏆 **Best Paper Award**.
3. Yue Zhao, Xueying Ding, Jianing Yang, Haoping Bai.
SUOD: Toward Scalable Unsupervised Outlier Detection
Workshops at the Thirty-Fourth AAAI Conference on Artificial Intelligence, 2020.
Extended version published in MLSys 2021.
2. Colin Wan, Zheng Li, Alicia Guo, Yue Zhao
SynC: A Unified Framework for Generating Synthetic Population with Gaussian Copula
Workshops at the Thirty-Fourth AAAI Conference on Artificial Intelligence, 2020.
Extended version published in ICDMW 2020.
1. Yue Zhao, Maciej K. Hryniewicki
DCSO: Dynamic Combination of Detector Scores for Outlier Ensembles
ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD Workshop on Outlier Detection De-constructed), 2018, London, UK.
Extended version published in SDM 2019, renamed to LSCP.

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| INTERNSHIP EXPERIENCE | NortonLifeLock Research Group | |
| | Machine Learning Research Intern | 2022 |
| | Microsoft Research | |
| | Machine Learning Research Intern | 2022 |
| | Stanford University, Computer Science Department | |
| | Visiting Student Researcher (Prof. Jure Leskovec) | 2021 |
| | IQVIA, Analytics Center of Excellence | |
| | Machine Learning Research Intern | 2020 |
| | Siemens PLM Software USA | |
| | Software Engineer (Intern & Contract) | Mar. 2012 - Dec. 2014 |
| TEACHING EXPERIENCE | University of Southern California | Los Angeles, CA |
| | Instructor | Spring 2025 (scheduled) |
| | <i>CSCI 566 Deep Learning and Its Applications</i> | |
| | Instructor | Spring 2024 |
| | <i>CSCI 566 Deep Learning and Its Applications</i> | |
| | Carnegie Mellon University | Pittsburgh, PA |
| | Teaching Assistant | Fall 2022 |
| | <i>Managing Digital Business</i> (Prof. David Riel) | |
| | Teaching Assistant & co-Instructor (lectures on AutoML and MLSys) | Spring 2022 – Fall 2020 |
| | <i>Intro to Artificial Intelligence</i> (Prof. David Steier) | |
| | Teaching Assistant | Spring 2022 |
| | <i>Digital Transformation</i> (Prof. David Riel) | |
| | Teaching Assistant (helping on course topics) | Fall 2021 |
| | <i>Statistics for IT Managers</i> (Prof. Daniel Nagin) | |
| | University of Toronto | Toronto, ON |
| | Teaching Assistant & Lab Session Instructor | Fall 2015 |
| | <i>Embedded Systems</i> (Prof. Philip Anderson) | |

PH.D. STUDENTS

- Haoyan Xu (USC, ECE Ph.D., 2024 Spring-)
- Yuehan Qin (USC, CS Ph.D., 2024 Fall-)
- Tiankai Yang (USC, CS Ph.D., 2024 Fall-)
- Li Li (USC, CS Ph.D., 2024 Fall-)

QUALIFICATION
& THESIS
COMMITTEE

- Alex Bisberg (USC, CS Ph.D.)
- Gengyu Rao (USC, CS Ph.D.)
- Mehrdad Kiamari (USC, ECE Ph.D.)
- Haonan Wang (USC, ECE Ph.D.)
- Yuan Meng (USC, ECE Ph.D.)
- Hassan Hamad (USC, ECE Ph.D.)
- Yizhou Zhang (USC, CS Ph.D.)
- Haoming Li (USC, CS Ph.D.)
- Arash Hajisafi (USC, CS Ph.D.)
- Yi Chien Lin (USC, ECE Ph.D.)
- Yuke Zhang (USC, ECE Ph.D.)

SERVICES

Conference Organizing Committee

- Workflow Co-Chair for KDD 2023

External Reviewer for Funding Proposals

- Dutch Research Council (NWO)

Journal Editor

- Associate Editor, IEEE Transactions on Neural Networks and Learning Systems (TNNLS)
- Action Editor, Journal of Data-centric Machine Learning Research (DMLR)

Program Committee (PC) or Area Chair (AC) for Conferences and Workshops

- ICLR 2025 (AC)
- AAAI 2025 (Senior PC)
- ICML 2024 (AC)
- AISTATS 2024, 2025 (AC)
- MLSys 2024
- KDD 2020, 2021, 2022, 2023
- IJCAI 2022, 2023
- NeurIPS 2021, 2022, 2023
- AAAI 2021, 2022, 2023
- AAAI Demonstrations 2021, 2022
- MICCAI 2020, 2021, 2022
- ICDM 2020
- KDD Workshop on Outlier Detection and Description (ODD), 2021
- KDD Workshop on Anomaly and Novelty Detection (ANDEA), 2021, 2022

- IJCAI Workshop on Artificial Intelligence for Anomalies and Novelties (AI4AN), 2020, 2021
- INFORMS Workshop on Data Science 2021

Journal Reviewer

- Journal of Machine Learning Research (JMLR)
- PNAS Nexus
- Machine Learning
- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- IEEE Transactions on Knowledge and Data Engineering (TKDE)
- IEEE Internet of Things Journal (IoT-J)
- IEEE Intelligent Systems
- IEEE Journal on Selected Areas in Communications (J-SAC)
- Data Mining and Knowledge Discovery (DMAI)
- ACM Transactions on Management Information Systems (TMIS)
- Knowledge and Information Systems (KAIS)
- INFORMS Journal on Computing (IJOC)
- Big Data
- Artificial Intelligence Review (AIRE)
- Neurocomputing
- IEEE Transactions on Systems, Man, and Cybernetics: Systems
- IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)
- IEEE Network Magazine
- IEEE Computational Intelligence Magazine (CIM)
- BioData Mining
- European Journal of Management and Business Economics (EJMBE)
- The Journal of Open Source Software (JOSS)

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| TALKS AND LECTURES | LinkedIn Anti-Abuse AI | <i>Outlier Detection: Automation, Systems, and GenAI</i> | Aug. 2024 |
| | Amazon Security AI | <i>Outlier Detection: Automation, Systems, and GenAI</i> | Aug. 2024 |
| | New York University | <i>Outlier Detection: Automation, Systems, and GenAI</i> | Aug. 2024 |
| | University of Washington | <i>Outlier Detection: Automation, Systems, and GenAI</i> | Jun. 2024 |
| | Microsoft | <i>Outlier Detection: Automation, Systems, and GenAI</i> | Jun. 2024 |
| | USC Retreat on AI and Engineering Safety | <i>Safety Measures for LLMs</i> | Apr. 2024 |
| | Visa Research | <i>Towards Reproducible, Automated, and Scalable AD</i> | Apr. 2024 |
| | USC Symposium on Frontiers of Generative AI | <i>Generative AI for Anomaly Detection</i> | Mar. 2024 |
| | AAAI New Faculty Highlights (invited) | <i>Towards Reproducible, Automated, and Scalable AD</i> | Feb. 2024 |
| | U of Nevada, Las Vegas | <i>Automated and Scalable ML Algorithms and Systems</i> | Oct. 2023 |
| | Samsung Seminar | <i>Automated and Scalable Anomaly Detection Systems</i> | Aug. 2023 |
| | KDD SoCal Day | <i>Enable Applications by ML with Noisy Inputs</i> | Aug. 2023 |
| | CMU Catalyst | <i>How (Not) to Fail Your Academic Job Search</i> | May. 2023 |
| | KAUST | <i>Automated and Scalable ML Algorithms and Systems</i> | Apr. 2023 |
| | Emory University | <i>Automated and Scalable ML Algorithms and Systems</i> | Apr. 2023 |
| | USC | <i>Automated and Scalable ML Algorithms and Systems</i> | Mar. 2023 |
| | UC Davis | <i>Automated and Scalable ML Algorithms and Systems</i> | Mar. 2023 |
| | Stony Brook University | <i>Automated and Scalable ML Algorithms and Systems</i> | Feb. 2023 |
| | University of Chicago | <i>Automated and Scalable ML Algorithms and Systems</i> | Feb. 2023 |
| | UC Merced | <i>Automated and Scalable ML Algorithms and Systems</i> | Feb. 2023 |
| | CMU PDL Meeting | <i>Automated and Scalable ML Algorithms and Systems</i> | Jan. 2023 |
| | CMU Data Science Seminar | Guest Lecture <i>Automated Anomaly Detection</i> | Nov. 2022 |
| | LoG Seminar | <i>Large-scale Graph Anomaly Detection</i> | Oct. 2022 |
| | Intuit | <i>Anomaly Detection for Financial Risk Modeling</i> | Aug. 2022 |
| | Rice University | <i>Large-scale Anomaly Detection with Automation</i> | Sep. 2022 |
| | Microsoft Research | <i>Weakly-supervised Anomaly Detection</i> | Sep. 2022 |
| | Wells Fargo | <i>Anomaly Detection for Financial Risk Modeling</i> | Aug. 2022 |
| | Columbia University | Guest Lecture <i>Anomaly Detection</i> | Jul. 2022 |
| | Morgan Stanley | <i>Automated Outlier Detection</i> | Jun. 2022 |
| | Microsoft Research | <i>Automated Outlier Detection</i> | Jun. 2022 |
| | Morgan Stanley | <i>Large-scale Anomaly Detection Systems</i> | Mar. 2022 |
| | Rutgers Business School | <i>Outlier Model Selection</i> | Mar. 2022 |
| | Tesla | <i>Large-scale Anomaly Detection Systems</i> | Feb. 2022 |
| | Catalyst, CMU | <i>Systems for Data Mining Algorithms</i> | Dec. 2021 |
| | E&Y Canada | <i>ML applications in Data Analytics</i> | Oct. 2021 |
| | University of Nottingham | <i>General Machine Learning Applications</i> | Jan. 2021 |