Yue Zhao

| Contact | ☑ yzhao010@usc.edu | 213-821-2369 | | |
|---|---|---|--|--|
| Information | github.com/yzhao062 | CS Department, SAL 104 | | |
| | <pre>in linkedin.com/in/yzhao062</pre> | Los Angeles, CA | | |
| | ☆ viterbi-web.usc.edu/~yzhao010/ | United States, 90089 | | |
| | I USC Faculty Directory | Department of Computer Science | | |
| | G Google Scholar | University of Southern California | | |
| Research Summary | I focus on building trustworthy, scalable, and generative AI systems to address complex, real-world challenges. My research integrates robustness, graph learning, generative AI, and scalable AI systems to ensure reliability, automate processes, and drive innovation. I also contribute to open-source AI tools, advancing efficient adoption across industries. 1. Robust and Trustworthy AI Across Domains: Ensuring trust and transparency in AI systems through techniques like outlier detection, anomaly detection, and OOD detection. 2. Graph Learning for Knowledge Discovery: Leveraging graph-based models to analyze interconnected data, enabling tasks like OOD detection, neural architecture search (NAS), and anomaly detection on graphs. 3. Generative AI and AI4Science: Applying generative AI, LLMs, and foundation models to solve scientific challenges such as synthetic clinical trials, drug discovery, and political forecasting. 4. Scalable and Open-Source AI Systems: Creating scalable and accelerated AI frameworks to automate tasks like model selection and hyperparameter optimization. As the creator of PyOD (25M+ downloads, used by NASA, Tesla, etc.), I lead over 10 open-source projects, | | | |
| | including PyGOD, TDC, and ADBench, collectively earning 20,000+ GitHub stars. (2) Graph Learning and Structured Knowledge for Decision-Making | | | |
| | | ☐ Anomaly Detection on Graphs | | |
| | ☐ Graph Neural Networks (GNNs) ☐ Graph Open Set Learning | ☐ Graph-based Knowledge Discovery | | |
| | (3) Generative AI and Foundation Models for AI4Science | | | |
| | □ Large Language Models (LLMs)□ Foundation Models | □ Drug Discovery□ LLMs for Political Science | | |
| | (4) Scalable and Open-Source AI Systems | | | |
| | ☐ Automated ML | ☐ Distributed Systems | | |
| | ☐ GPU Acceleration | ☐ Open-source Frameworks | | |
| FULL-TIME PROFESSIONAL EXPERIENCE | University of Southern California Thomas Lord Department of Computer Science Assistant Professor (Tenure-Track) • Foundations Of Robust Trustworthy Intelligent Systems (FORTIS) Lab: Link • USC Machine Learning Center (MaSCle): Link | | | |
| | D. C.C. | | | |
| | PwC Canada | | | |
| | Consulting & Deals Series Consultant (Data Scientist) | A 2017 I 2010 | | |
| | Senior Consultant (Data Scientist) Consultant (Data Scientist) | Aug. 2017 - Jun. 2019 Feb. 2017 - Jul. 2017 | | |
| | Consumant (Data Scientist) | reb. 2017 - Jul. 2017 | | |

EDUCATION Carnegie Mellon University

Ph.D. in Information Systems and Management

Pittsburgh, PA 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 **G** Scholar

Preprints & Under Submission

G SCHOLAR
RESEARCHG

Sizhe Liu, Yizhou Lu, Siyu Chen, Xiyang Hu, Tianfan Fu, <u>Yue Zhao</u>
 DrugAgent: Automating AI-aided Drug Discovery Programming through LLM Multi-Agent Collaboration

Under submission

arXiv preprint arXiv:2411.15692

50. Zhendong Liu, Yi Nian, Henry Peng Zou, Li Li, Xiyang Hu, <u>Yue Zhao</u> COOD: Concept-based Zero-shot OOD Detection

Under submission

arXiv preprint arXiv:2411.13578

49. Shawn Li, Huixian Gong, Hao Dong, Tiankai Yang, Zhengzhong Tu, <u>Yue Zhao</u> 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, <u>Yue Zhao</u> LEGO-Learn: Label-Efficient Graph Open-Set Learning

Under submission

arXiv preprint arXiv:2410.16386

47. Zerui Xu, Fang Wu, Tianfan Fu, <u>Yue Zhao</u> Retrieval-Reasoning Large Language Model-based Synthetic Clinical Trial Generation **Under submission**

arXiv preprint arXiv:2410.12476

Yuehan Qin, Yichi Zhang, Yi Nian, Xueying Ding, <u>Yue Zhao</u>
 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, <u>Yue Zhao</u>

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, <u>Yue Zhao</u>, 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, <u>Yue Zhao</u>, Wentao Zhang, Bin Cui, Ming-Hsuan Yang

Diffusion Models: A Comprehensive Survey of Methods and Applications

ACM Computing Surveys (CSUR), 2023

(*equal contribution)

40. <u>Yue Zhao*</u>, 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*, <u>Yue Zhao</u>, 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. <u>Yue Zhao*</u>, 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.

Conference & Workshop Papers

36. Hao Dong, <u>Yue Zhao</u>, Eleni Chatzi, Olga Fink MultiOOD: Scaling Out-of-Distribution Detection for Multiple Modalities Advances in Neural Information Processing Systems (NeurIPS), Spotlight, 2024

35. 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.

- 34. Xueying Ding, <u>Yue Zhao</u>, Leman Akoglu
 Fast Unsupervised Deep Outlier Model Selection with Hypernetworks
 ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2024
- 33. Yuehan Qin, Yichi Zhang, <u>Yue Zhao</u>
 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.
- 32. 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

- 31. Songtao Liu, Hanjun Dai, <u>Yue Zhao</u>, Peng Liu Preference Optimization for Molecule Synthesis with Conditional Residual Energy-based Models International Conference on Machine Learning (ICML), Oral, 2024
- Yue Zhao, Leman Akoglu
 Hyperparameter Optimization for Unsupervised Outlier Detection
 International Conference on Automated Machine Learning (AutoML), 2024
- 29. Yue Zhao Towards Reproducible, Automated, and Scalable Anomaly Detection AAAI Conference on Artificial Intelligence (AAAI), New Faculty Highlights, 2024
- 28. 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)
- 27. 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
- 26. 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
- 25. 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
- Yue Zhao, George H. Chen, Zhihao Jia
 TOD: GPU-accelerated Outlier Detection via Tensor Operations

 International Conference on Very Large Data Bases (VLDB), 2023
- 23. Songqiao Han*, Xiyang Hu*, Hailiang Huang*, Minqi Jiang*, <u>Yue Zhao*</u> ADBench: Anomaly Detection Benchmark Advances in Neural Information Processing Systems (NeurIPS), 2022 (*equal contribution & the corresponding author)
- Yue Zhao*, Kay Liu*, Yingtong Dou*, et al.
 Benchmarking Node Outlier Detection on Graphs
 Advances in Neural Information Processing Systems (NeurIPS), 2022
 (*equal contribution)
- 21. 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).
- 20. 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%.

- Yue Zhao, Ryan A. Rossi, Leman Akoglu
 Automatic Unsupervised Outlier Model Selection
 Advances in Neural Information Processing Systems (NeurIPS), 2021
 Acceptance rate 26%.
- 18. Kwei-Herng Lai, Daochen Zha, Junjie Xu, <u>Yue Zhao</u>, Guanchu Wang, Xia Hu Revisiting Time Series Outlier Detection: Definitions and Benchmarks *Advances in Neural Information Processing Systems* (*NeurIPS*), 2021
- 17. Kexin Huang*, Tianfan Fu*, Wenhao Gao*, <u>Yue Zhao</u>, 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)

- 16. 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)
- 15. 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)
- 14. Meng-Chieh Lee, <u>Yue Zhao</u>, 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
- 13. Changlin Wan, Dongya Jia, <u>Yue Zhao</u>, 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
- 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.
- Zheng Li, <u>Yue Zhao</u>, Nicola Botta, Cezar Ionescu, Xiyang Hu COPOD: Copula-Based Outlier Detection
 IEEE International Conference on Data Mining (ICDM), 2020.
- Zheng Li, <u>Yue Zhao</u>, Jialin Fu SYNC: A Copula based Framework for Generating Synthetic Data from Aggregated Sources IEEE International Conference on Data Mining Workshops (ICDMW), 2020.
- Yiqun Mei, <u>Yue Zhao</u>, Wei Liang DSR: An Accurate Single Image Super Resolution Approach for Various Degradations IEEE International Conference on Multimedia and Expo (ICME), 2020, London, UK.
- 8. <u>Yue Zhao</u>, 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)
- Colin Wan, Zheng Li, Alicia Guo, <u>Yue Zhao</u>
 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.
- Zain Nasrullah, <u>Yue Zhao</u>
 Music Artist Classification with Convolutional Recurrent Neural Networks
 IEEE International Joint Conference on Neural Networks (IJCNN), 2019, Hungary.

- 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).
- 4. 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.

- 3. <u>Yue Zhao</u>, Maciej K. Hryniewicki XGBOD: Improving Supervised Outlier Detection with Unsupervised Representation Learning *IEEE International Joint Conference on Neural Networks (IJCNN*), 2018, Rio, Brazil.
- 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).
- 1. 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)

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

Instructor

Los Angeles, CA Spring 2025

CSCI 566 Deep Learning and Its Applications

Instructor

Spring 2024

CSCI 566 Deep Learning and Its Applications

Carnegie Mellon University

Teaching Assistant

Pittsburgh, PA

Fall 2022

Managing Digital Business (Prof. David Riel)

Teaching Assistant & co-Instructor (lectures on AutoML and MLSys)

Spring 2022 – Fall 2020

Intro to Artificial Intelligence (Prof. David Steier)

Teaching Assistant

Spring 2022

Digital Transformation (Prof. David Riel)

Teaching Assistant (helping on course topics)

Fall 2021

University of Toronto

Teaching Assistant & Lab Session Instructor

Statistics for IT Managers (Prof. Daniel Nagin)

Toronto, ON Fall 2015

Embedded Systems (Prof. Philip Anderson)

Teaching Assistant & Lab Session Instructor

Intro to Programming (Prof. George Purdy)

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, 2025 (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)

| Talks and Lectures | KAIST | Unsupervised Model Selection: Automation with Meta-learning and LLMs | Nov. 2024 |
|-----------------------|---------------------------|--|-----------|
| LECTURES | Kennesaw State University | Unsupervised Model Selection: Automation with Meta-learning and LLMs | Oct. 2024 |
| | LinkedIn Anti-Abuse AI | Outlier Detection: Automation, Systems, and GenAI | Aug. 2024 |
| | Amazon Security AI | Outlier Detection: Automation, Systems, and GenAI | Aug. 2024 |
| | New York University | Outlier Detection: Automation, Systems, and GenAI | Aug. 2024 |
| | University of Washington | Outlier Detection: Automation, Systems, and GenAI | Jun. 2024 |
| | Microsoft | Outlier Detection: Automation, Systems, and GenAI | Jun. 2024 |
| | USC Retreat on AI and En- | Safety Measures for LLMs | Apr. 2024 |
| | gineering Safety | | 1 |
| | Visa Research | Towards Reproducible, Automated, and Scalable AD | Apr. 2024 |
| | USC Symposium on Fron- | Generative AI for Anomaly Detection | Mar. 2024 |
| | tiers of Generative AI | · · | |
| | AAAI New Faculty High- | Towards Reproducible, Automated, and Scalable AD | Feb. 2024 |
| | lights (invited) | | |
| | U of Nevada, Las Vegas | Automated and Scalable ML Algorithms and Systems | Oct. 2023 |
| | Samsung Seminar | Automated and Scalable Anomaly Detection Systems | Aug. 2023 |
| | KDD SoCal Day | Enable Applications by ML with Noisy Inputs | Aug. 2023 |
| | CMU Catalyst | How (Not) to Fail Your Academic Job Search | May. 2023 |
| | KAUST | Automated and Scalable ML Algorithms and Systems | Apr. 2023 |
| | Emory University | Automated and Scalable ML Algorithms and Systems | Apr. 2023 |
| | USC | Automated and Scalable ML Algorithms and Systems | Mar. 2023 |
| | UC Davis | Automated and Scalable ML Algorithms and Systems | Mar. 2023 |
| | Stony Brook University | Automated and Scalable ML Algorithms and Systems | Feb. 2023 |
| | University of Chicago | Automated and Scalable ML Algorithms and Systems | Feb. 2023 |
| | UC Merced | Automated and Scalable ML Algorithms and Systems | Feb. 2023 |
| | CMU PDL Meeting | Automated and Scalable ML Algorithms and Systems | Jan. 2023 |
| | CMU Data Science Seminar | Guest Lecture Automated Anomaly Detection | Nov. 2022 |
| | LoG Seminar | Large-scale Graph Anomaly Detection | Oct. 2022 |
| | Intuit | Anomaly Detection for Financial Risk Modeling | Aug. 2022 |
| | Rice University | Large-scale Anomaly Detection with Automation | Sep. 2022 |
| | Microsoft Research | Weakly-supervised Anomaly Detection | Sep. 2022 |
| | Wells Fargo | Anomaly Detection for Financial Risk Modeling | Aug. 2022 |
| | Columbia University | Guest Lecture Anomaly Detection | Jul. 2022 |
| | Morgan Stanley | Automated Outlier Detection | Jun. 2022 |
| | Microsoft Research | Automated Outlier Detection | Jun. 2022 |
| | Morgan Stanley | Large-scale Anomaly Detection Systems | Mar. 2022 |
| | Rutgers Business School | Outlier Model Selection | Mar. 2022 |
| | Tesla | Large-scale Anomaly Detection Systems | Feb. 2022 |
| | Catalyst, CMU | Systems for Data Mining Algorithms MI applications in Pate Angletics | Dec. 2021 |
| | E&Y Canada | ML applications in Data Analytics | Oct. 2021 |
| | University of Nottingham | General Machine Learning Applications | Jan. 2021 |