ZHE LIU

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EDUCATION

Postdoctoral Fellow in Computer Science and Engineering   2021 - Now
Data Dynamics, University of New South Wales.

Ph.D. in Computer Science and Engineering   2018 - Now
Data Dynamics, University of New South Wales.

Bachelor Degree in Computer Science Major   2014 - 2018
Department of Computer Science and Technology, Jilin University.

RESEARCH INTERESTS

My research interests mainly focus on machine learning and data mining, especially on the application of generative networks in different real world scenarios. My current topics are summarized as follows:

- Consumer Behavior Analysis
- Human Activity Recognition
- Zero-shot Learning

PUBLICATIONS AND SUBMISSIONS

Accepted Paper

- **Zhe Liu**, Xianzhi Wang, Yun Li, Lina Yao, Lei Bai and Ee-Peng Lim. "Face to Purchase: Predicting Consumer Choices with Structured Facial and Behavioral Traits Embedding." Knowledge-based System (KBSYST, 2021) (Accepted to publish) (IF=8.038, JCR Q1, SJR Q1)
- **Zhe Liu**, Lina Yao, Xianzhi Wang, Jessica Monaghan, Roland Schaette, Zihuai He, and David McAlpine. "Generalizable Sample-efficient Siamese Autoencoder for Tinnitus Diagnosis in Listeners with Subjective Tinnitus." IEEE Neural Systems and Rehabilitation Engineering (TNSRE), 2021. (IF=3.802, JCR Q1, SJR Q1, Core A*)
- **Zhe Liu**, Yun Li, Lina Yao, Xianzhi Wang, Feipinng Nie. "Agglomerative Neural Networks for Multi-view Clustering." IEEE Transactions on Neural Networks and Learning Systems (TNNLS, 2021). (IF=10.451, JCR Q1, CCF: B, SJR Q1, Core A*)
- **Zhe Liu**, Yun Li, Lina Yao, Xianzhi Wang. "Task Aligned Generative Meta-learning for Zero-shot Learning."The Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI, 2021). (CORE: A*, CCF: A)
- Yun Li, **Zhe Liu**, Lina Yao and Zihuai He, "Non-local Self-attentive Autoencoder for Genetic Functionality Prediction."The 29th International Conference on Information and Knowledge Management, (CIKM 2020). (CORE: A, CCF: B)
- **Zhe Liu**, Lina Yao, Lei Bai, Xianzhi Wang and Can Wang. 'Spectrum-Guided Adversarial Disparity Learning." The 26th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2020). Research Track. (CORE: A*, CCF: A)
- **Zhe Liu**, Lina Yao, Xianzhi Wang, Lei Bai and Jake An. "Are You a Risk Taker? Adversarial Learning of Asymmetric Cross-Domain Alignment for Risk Tolerance Prediction." International Joint Conference on Neural Networks (IJCNN, 2020). (CORE: A, CCF: C)
- Xiang Zhang, Lina Yao, Manqing Dong, **Zhe Liu**, Yu Zhang and Yong Liu, "Adversarial Representation Learning for Robust Patient-Independent Epileptic Seizure Detection." Journal of Biomedical and Health Informatics (JBHI, 2020). (IF=5.772, JCR Q1, SJR Q1, Core A*)

Under Review (* denotes corresponding author)

- **Zhe Liu**, Yun Li, and Lina Yao. "Rethink, Revisit, Revise: Spiral Reinforced Self-Revised Learning for Zero-Shot Learning." (Submitted to 2022 AAAI)
- Yun Li, **Zhe Liu***, Lina Yao, and Xiaojun Chang. "Attribute-Modulated Generative Meta Learning for Zero-shot Learning." (Submitted to IEEE Transactions on Multimedia)

- Yun Li, **Zhe Liu***, Lina Yao, Xianzhi Wang, Julian McAuley "An Entropy-guided Reinforced Partial Convolutional Network for Zero-Shot Learning." (Submitted to 2022 AAAI)

SERVICES

Reviewer, IEEE Internet of Things Journal (IoT), 2021
PC Member, Association for the Advancement of Artificial Intelligence (AAAI), 2021
External Reviewer, ACM Multimedia (MM), 2021
External Reviewer, ACM Transactions on Sensor Networks (TOSN), 2020
External Reviewer, ACM International Conference on Information and Knowledge Management (CIKM), 2020
External Reviewer, ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2020
External Reviewer, Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), 2019
External Reviewer, ACM Transactions on Information Systems (TOIS), 2019
External Reviewer, IEEE International Conference on Data Mining (ICDM), 2019
External Reviewer, ACM International Conference on Web Search and Data Mining (WSDM), 2019
External Reviewer, ACM MULTIMEDIA (MM), 2019

GRANTS

ECA EDI Seed Grant	2021
Top-ups Scholarship	2020
Top-ups Scholarship	2019
Tuition Fee Scholarship	2018
China Scholarship Council (CSC) Scholarship	2018