

ZHE LIU

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EDUCATION

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**, Lina Yao, Xianzhi Wang, Jessica Monaghan, Roland Schaette, Zihuai He, and David McAlpine. “Generalizable Sample-efficient Siamese Autoencoder for Hidden Hearing Loss Diagnosis in Listeners with Subjective Tinnitus.” IEEE Neural Systems and Rehabilitation Engineering (TNSRE), 2021.
- **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.
- **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).
- 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).
- **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.
- **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)
- 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)

Under Review and Ongoing Work

- **Zhe Liu**, Xianzhi Wang, Lina Yao, Lei Bai and Ee-Peng Lim. “Face to Purchase: Predicting Consumer Choices with Structured Facial and Behavioral Traits Embedding.”
- **Zhe Liu**, Yun Li, and Lina Yao. “Rethink, Revisit, Revise: Spiral Reinforced Self-Revised Learning for Zero-Shot Learning.”

SERVICES

Reviewer, ACM Transactions on Sensor Networks (TOSN), 2020

Reviewer, ACM International Conference on Information and Knowledge Management (CIKM), 2020

Reviewer, ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2020

Reviewer, Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), 2019

Reviewer, ACM Transactions on Information Systems (TOIS), 2019

Reviewer, IEEE International Conference on Data Mining (ICDM), 2019

Reviewer, ACM International Conference on Web Search and Data Mining (WSDM), 2019
Reviewer, ACM MULTIMEDIA (MM), 2019

GRANTS

Top-ups Scholarship	2020
KDD Travel Grant	2020
IJCNN Travel Grant	2020
Top-ups Scholarship	2019
Tuition Fee Scholarship	2018
China Scholarship Council (CSC) Scholarship	2018