

# YUN LI

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## EDUCATION

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PhD in Computer Science and Engineering 2019.10 - now  
Supervisor: Lina Yao, Data Dynamics Group, University of New South Wales.

Master in Computer Science 2016.9 - 2019.6  
Supervisor: Chongjun Wang, Intelligent Information Processing Group, Nanjing University.

Bachelor in Computer Science 2012.9 - 2016.6  
Department of Computer Science and Technology, Nanjing University.

## RESEARCH INTERESTS

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My research interests focus on data mining, deep learning, and transfer learning, especially with applications in image classification, human genetic analysis, and healthcare improvement. I have worked on spatial datasets, graph datasets, and text topic discovery.

## PUBLICATIONS AND SUBMISSIONS (\* DENOTES CORRESPONDING AUTHOR)

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### Accepted Paper

- Yun Li, Zhe Liu, Xiaojun Chang, Julian McAuley, and Lina Yao. “Diversity-boosted Generalization-Specialization Balancing for Zero-shot Learning.” IEEE Transactions on Multimedia (TMM, 2022). (IF=8.182, SJR Q1, CORE A\*) (Accepted with minor revision).
- Zhe Liu, Yun Li, Lina Yao, Molly Lucas, Jessica J.M.Monaghan, and Yu Zhang. “Side-aware Meta Learning for Cross-Dataset Listener Diagnosis with Subjective Tinnitus.” IEEE Transactions on Neural Systems and Rehabilitation Engineering (TNSRE, 2022). (IF=4.528, SJR Q1)  
<https://ieeexplore.ieee.org/abstract/document/9864608>
- Zhe Liu, Yun Li\*, Lina Yao, and Julian McAuley. “Rethink, Revisit, Revise: Spiral Reinforced Self-Revised Learning for Zero-Shot Learning.” IEEE Transactions on Neural Networks and Learning Systems (TNNLS, 2022). (IF=14.255, SJR Q1, Core A\*)  
<https://ieeexplore.ieee.org/abstract/document/9783466>
- Yun Li, Zhe Liu\*, Lina Yao, Xianzhi Wang, Julian McAuley, Xiaojun Chang. “An Entropy-Guided Reinforced Partial Convolutional Network for Zero-Shot Learning.” IEEE Transactions on Circuits and Systems for Video Technology (TCSVT, 2022). (IF=5.859, SJR Q1) <https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=76>
- Yun Li, Zhe Liu, Lina Yao, Xiaojun Chang. “Attribute-Modulated Generative Meta Learning for Zero-shot Learning.” IEEE Transactions on Multimedia (TMM, 2021). (IF=8.182, SJR Q1, CORE A\*) <https://ieeexplore.ieee.org/document/9665225>
- Xiaocong Chen, Yun Li, Lina Yao, Ehsan Adeli, Yu Zhang, Xianzhi Wang. “Generative adversarial U-Net for domain-free few-shot medical diagnosis.”[J], Pattern Recognition Letters (PRL, 2021). (IF=5.67, SJR Q1, CORE B) <https://dl.acm.org/doi/10.1016/j.patrec.2022.03.022>
- 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) (IF=8.038, JCR Q1, SJR Q1)  
<https://www.sciencedirect.com/science/article/abs/pii/S0950705121009278>
- 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=14.255, SJR Q1, Core A\*)  
<https://ieeexplore.ieee.org/abstract/document/9324979>
- 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\*)  
<https://ojs.aaai.org/index.php/AAAI/article/view/17057>

- Yun Li, Zhe Liu, Lina Yao, Zihuai He. “Non-local Self-attentive Autoencoder for Genetic Functionality Prediction.” The 29th International Conference on Information and Knowledge Management, (CIKM 2020). (CORE: A)  
<https://dl.acm.org/doi/abs/10.1145/3340531.3412084>
- Yun Li, Yixiang Fang, Reynold Cheng, Wenjie Zhang. “Spatial pattern matching: A new direction for finding spatial objects. ”[J], SIGSPATIAL Special, 2019, 11(1): 3-12. <https://dl.acm.org/doi/abs/10.1145/3355491.3355493>
- Yixiang Fang, Yun Li, Reynold Cheng, Nikos Mamoulis, Gao Cong. “Evaluating Pattern Matching Queries for Spatial Databases.” The International Journal on Very Large Data Bases (VLDBJ, 2019). (IF=4.243, SJR Q1, CORE A\*)  
<https://link.springer.com/article/10.1007/s00778-019-00550-3>
- Yixiang Fang, Reynold Cheng, Gao Cong, Nikos Mamoulis, Yun Li. “On Spatial Pattern Matching.” International Conference on Data Engineering (ICDE, 2018). (CORE A\*)  
<https://ieeexplore.ieee.org/abstract/document/8509256>
- Hengyang Lu, Yun Li, Chi Tang, Chongjun Wang, Junyuan Xie. “Constructing Pseudo Documents with Semantic Similarity for Short Text Topic Discovery.” International Conference on Neural Information Processing (ICONIP, 2018). (CORE A)  
[https://link.springer.com/chapter/10.1007/978-3-030-04221-9\\_39](https://link.springer.com/chapter/10.1007/978-3-030-04221-9_39)
- Yankai Chen, Yixiang Fang, Reynold Cheng, Yun Li, Xiaojun Chen, Jie Zhang. “Exploring Communities in Large Profiled Graphs.” IEEE Transactions on Knowledge and Data Engineering (TKDE, 2018). (IF=9.235, SJR Q1, CORE A\*)  
<https://ieeexplore.ieee.org/abstract/document/8543239>

#### Under Review

- Yun Li, Zhe Liu, Lina Yao, Jessica J.M.Monaghan, David McAlpine. “Disentangled and Side-aware Unsupervised Domain Adaptation for Cross-dataset Subjective Tinnitus Diagnosis ”[J], Submitted to JBHI (Q1) major revision now
- Yun Li, Zhe Liu, Saurav Jha, Sally Cripps, and Lina Yao. “Distilled Reverse Attention Network for Open-world Compositional Zero-Shot Learning” Submitted to Conference on Computer Vision and Pattern Recognition, 2023
- Zhe Liu, Yun Li, Lina Yao, Xiaojun Chang, and Yi Yang. “Simple Primitives with Feasibility- and Contextuality-Dependence for Open-World Compositional Zero-shot Learning” Submitted to IEEE Transactions on Pattern Analysis and Machine Intelligence

#### SELECTED HONORS

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Google PhD Fellowship in Machine Learning, 2021 (Only 5 award winners in Australia)  
 CIKM student travel grant, 2020  
 UNSW Top-up Scholarship, 2020  
 University International Postgraduate Award (UIPA), from 2019 to 2023  
 First Prize of Academic Scholarships, Nanjing university, from 2016 to 2019

#### SERVICES

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Reviewer, Transactions on Sensor Networks (TOSN), 2022  
 Reviewer, Transactions on Multimedia (TMM), 2022  
 Reviewer, IEEE Journal of Biomedical and Health Informatics (JBHI), 2022  
 Reviewer, Knowledge-based System (KBSYST), 2022  
 Reviewer, Association for the Advancement of Artificial Intelligence (AAAI) 2021.  
 Reviewer, ACM Multimedia(MM) 2021.  
 Reviewer, ACM Transactions on Sensor Networks (TOSN),2021.  
 External reviewer, Association for the Advancement of Artificial Intelligence (AAAI) 2021.  
 External reviewer, Conference on Information and Knowledge Management (CIKM) 2020.  
 External reviewer, Knowledge Discovery in Databases (KDD) 2020.