

ZIHENG DUAN

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EDUCATION

University of California, Irvine

Irvine, USA

Ph.D. in Computer Science

Sep 2021 – Present

- GPA: 3.93/4.00
- Award: Dean's Fellowship (\$10K)

Zhejiang University

Hangzhou, China

B.E. in Control Science and Engineering

Sep 2016 – Jun 2020

- GPA: 3.74/4.00 (top 15%)
- Admitted on basis of performance on the National College Admissions Exam (top 0.1%)
- Double Major: Computer Science and Technology, Chu-Kochen Honors College
- Selected award: Research and Innovation Scholarship (Ranking of research and innovation: 5/77)

SELECTED PUBLICATIONS (*CO-FIRST AUTHOR)

1. **Z Duan**, Y Dai, A Hwang, C Lee, K Xie, C Xiao, M Xu, M Girgenti, J Zhang, “iHerd: an integrative hierarchical graph representation learning framework to quantify network changes and prioritize risk genes in disease,” 2023-09-11, *PLOS Computational Biology*.
2. **Z Duan**, C Lee, J Zhang, “ExAD-GNN: Explainable Graph Neural Network for Alzheimer's Disease State Prediction from Single-cell Data,” 2023-07-31, *APSIPA Transactions on Signal and Information Processing*.
3. **Z Duan**, H Xu, Y Wang, Y Huang, A Ren, Z Xu, Y Sun, W Wang, “Multivariate time series classification with hierarchical variational graph pooling,” 2022-08-02, *Neural Networks*.
4. **Z Duan**, H Xu, Y Huang, J Feng, Y Wang, “Multivariate Time Series Forecasting with Transfer Entropy Graph,” 2022-07-02, *Tsinghua Science and Technology*.
5. **Z Duan**, Y Wang, W Ye, Q Fan, X Li, “Connecting Latent ReLationships over Heterogeneous Attributed Network for Recommendation,” 2022-03-21, *Applied Intelligence*.
6. Yueyang Wang*, **Ziheng Duan***, Yida Huang, Haoyan Xu, Jie Feng, Anni Ren, “MTHetGNN: A Heterogeneous Graph Embedding Framework for Multivariate Time Series Forecasting,” 2021-12-18, *Pattern Recognition Letter*.
7. Haoyan Xu*, **Ziheng Duan***, Yueyang Wang, Jie Feng, Runjian Chen, Qianru Zhang, Zhongbin Xu, “Graph partitioning and graph neural network based hierarchical graph matching for graph similarity computation,” 2021-06-07, *Neurocomputing*.
8. Yueyang Wang, **Ziheng Duan**, Binbing Liao, Fei Wu, Yueting Zhuang, “Heterogeneous Attributed Network Embedding with Graph Convolutional Networks,” 2019-07-17, *AAAI-2019*.

SELECTED AWARDS AND HONORS

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| • Dean's Fellowship (\$10K), University of California, Irvine | 2021 |
| • Star Bridge Award, Microsoft Research Asia | 2020 |
| • Research and Innovation Scholarship, Zhejiang University | 2019 |
| • Merit Student, Zhejiang University (won three times) | 2017~2019 |
| • Academic Excellence Scholarship, Zhejiang University (won three times) | 2017~2019 |

SKILLS AND TEACHING

Skills

- Major Related Skills: Computational Biology, Machine Learning, Representation Learning
- Basic Science Knowledge: Probability, Mathematic Analysis, Linear Algebra, Physics

Programming Language and Tools

- Python, C/C++, MATLAB, Verilog, Assembly
- Pytorch, Tensorflow, LaTeX

Teaching

- Reader in ICS 178 (Fall 2021), ICS 178 (Winter 2021), ICS 6D (Spring 2022)