Jia-Qi Yang

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Personal Profile

I am a machine learning / data mining researcher. I have been mainly working on recommender systems, graph neural networks, and machine learning for scientific design. Since 2021, I have been pursuing my doctoral studies at Nanjing University, under the esteemed guidance of Prof. De-Chuan Zhan.

Education

Nanjing University

Doctor of Philosophy (Computer Science and Technology)

Recommender systems, machine learning for scientific design

Nanjing University

Master of Engineering (Computer Science and Technology)

Graph neural networks

Wuhan University

Bachelor of Engineering (Electrical Engineering and its Automation) Deep learning for electricity interruption detection Sept 2021 - Current

Nanjing, China

Nanjing, China

Sept 2018 - June 2021

Wuhan, China Sept 2014 - June 2018

Publications

PREPRINTS

COURIER: Contrastive User Intention Reconstruction for Large-Scale Pre-Train of Image Features Jia-Qi Yang, Chenglei Dai, OU Dan, Ju Huang, De-Chuan Zhan, Qingwen Liu, Xiaoyi Zeng, Yang Yang 2023

Beyond Probability Partitions: Calibrating Neural Networks with Semantic Aware Grouping Jia-Qi Yang, De-Chuan Zhan, Le Gan 2023

CONFERENCE PROCEEDINGS

 IDToolkit: A Toolkit for Benchmarking and Developing Inverse Design Algorithms in Nanophotonics Jia-Qi Yang, Yucheng Xu, Jia-Lei Shen, Kebin Fan, De-Chuan Zhan, Yang Yang The 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2023
RID-Noise: Towards Robust Inverse Design under Noisy Environments Jia-Qi Yang, Ke-Bin Fan, Hao Ma, De-Chuan Zhan Thirty-Sixth AAAI Conference on Artificial Intelligence (AAAI), 2022

Generalized Delayed Feedback Model with Post-Click Information in Recommender Systems Jia-Qi Yang, De-Chuan Zhan

Annual Conference on Neural Information Processing Systems (NeurIPS), 2022

Capturing Delayed Feedback in Conversion Rate Prediction via Elapsed-Time Sampling Jia-Qi Yang, Xiang Li, Shuguang Han, Tao Zhuang, De-Chuan Zhan, Xiaoyi Zeng, Bin Tong Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI), 2021

Towards Understanding Transfer Learning Algorithms Using Meta Transfer Features Xin-Chun Li, De-Chuan Zhan, Jia-Qi Yang, Yi Shi, Cheng Hang, Yi Lu Advances in Knowledge Discovery and Data Mining - 24th Pacific-Asia Conference (PAKDD), 2020

Bottom-Up and Top-Down Graph Pooling Jia-Qi Yang, De-Chuan Zhan, Xin-Chun Li Advances in Knowledge Discovery and Data Mining - 24th Pacific-Asia Conference (PAKDD), 2020

JOURNAL ARTICLES

Normalizing Flows for Efficient Inverse Design of Thermophotovoltaic Emitters Jia-Qi Yang, YuCheng Xu, Kebin Fan, Jingbo Wu, Caihong Zhang, De-Chuan Zhan, Biao-Bing Jin, Willie J. Padilla ACS Photonics (Mar. 2023). American Chemical Society (ACS), 2023

Corporate Relative Valuation Using Heterogeneous Multi-Modal Graph Neural Network Yang Yang, Jia-Qi Yang, Ran Bao, De-Chuan Zhan, Hengshu Zhu, Xiaoru Gao, Hui Xiong, Jian Yang IEEE Trans. Knowl. Data Eng. 35.1 (2023) pp. 211–224. 2023

Deep multiple instance selection Xin-Chun Li, De-Chuan Zhan, Jia-Qi Yang, Yi Shi

Work Experience

Taobao Search, Alibaba Inc.

Research Intern

- Analyzing the delayed feedback problem and designing a practical algorithm.
- Developing pre-training algorithm for the large-scale visual recommendation.

Achievements _____

2022	Scholar Award. NeurIPS'22, AAAI'22
2022	National Scholarship for PhD student.
2021	HUAWEI Fellowship for Outstanding Contribution. HUAWEI Lab
2018	Champion(1/2116). Alibaba Global Scheduling Algorithm Competition
2018	Most Exquisite Code Award. Huawei Code Craft
2018	KENSHO prize. HackHarvard, Harvard Univeristy
2016	Gold Award. ICPC Asian Regional, HongKong Onsite
2016	Silver Award. ICPC Asian Regional, East Continent Final
2016	Gold Award. CCPC, South China Invitational Contest
2016	Silver Award. CCPC, Changchun Onsite
2015	Bronze Award. ICPC Asian Regional, Shanghai Onsite

Academic Service

CONFERENCE / JOURNAL REVIEWER

- ECML-PKDD'21, AAAI'21, ACML'21, SDM'21, AAAI'22, NeruIPS'22, UAI'22, AAAI'23, NeurIPS'23, ECAI'23, PAKDD'23, ICLR'23
- IEEE Transactions on Knowledge and Data Engineering, IEEE Transactions on Computational Social Systems, Chinese Journal of Electronics, Transactions on Intelligent Systems and Technology, Journal of Software, Journal of Computer Research and Development

TEACHING ASSISTANT

- 2023, Intelligent system design and application. with Prof. De-Chuan Zhan.
- 2021, Digital Signal Processing. with Prof. Han-Jia Ye.
- 2018, Advanced C++ Programming. with Prof. Shu-Jian Huang and Prof. Zhi-Qiang Zuo.

Hangzhou, China 2020 - 2020, 2022 - 2023