

TIANYU ZHU

Beijing, China
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EDUCATION

- **Tsinghua University, Beijing, China** August 2016 - June 2022
Ph.D. in *Management Science and Engineering*
School of Economics and Management
Advisor: Prof. Guoqing Chen
- **Beihang University, Beijing, China** August 2012 - June 2016
B.S. in *Information Management and Information Systems*
School of Economics and Management
Advisor: Prof. Junjie Wu

WORK EXPERIENCE

- **Beihang University, Beijing, China** November 2023 - present
Postdoctoral Research Fellow
School of Economics and Management
Advisor: Prof. Junjie Wu
- **Université de Montréal, Montréal, Canada** October 2022 - October 2023
Postdoctoral Research Fellow
Department of Computer Science and Operations Research
Advisor: Prof. Jian-Yun Nie

RESEARCH EXPERIENCE

- **Alibaba DAMO Academy, Hangzhou/Beijing** December 2020 - October 2021
Research Intern
Department of Data Intelligence
Advisor: Dr. Jiandong Ding

RESEARCH INTERESTS

- **Personalized Recommendation, Data Mining, Business Intelligence**
Graph-based regularization in recommendation
Economics and consumer behavior in recommendation
Bias and Debias in recommendation
Sequentiality in recommendation

PAPERS

- **Collaboration and Transition: Distilling Item Transitions into Multi-Query Self-Attention for Sequential Recommendation**
Tianyu Zhu, Yansong Shi, Yuan Zhang, Yihong Wu, Fengran Mo, Jian-Yun Nie
WSDM 2024 (Oral).
- **Graph-based Embedding Smoothing for Sequential Recommendation**
Tianyu Zhu, Leilei Sun, Guoqing Chen
TKDE 2021.

- **Embedding Disentanglement in Graph Convolutional Networks for Recommendation**
Tianyu Zhu, Leilei Sun, Guoqing Chen
TKDE 2021.
- **Social Collaborative Mutual Learning for Item Recommendation**
Tianyu Zhu, Guannan Liu, Guoqing Chen
TKDD 2020.
- **Contrastive Preference Learning with Bi-Weighting for Popularity Debiasing in Item Recommendation**
Tianyu Zhu, Jiandong Ding, Yansong Shi, Guoqing Chen, Jian-Yun Nie
Working paper.
- **Budget-Aware Basket Optimization Based on Decoupled Item Retrieval for Economic Next Basket Recommendation**
Tianyu Zhu, Jian-Yun Nie, Fares Belkhiria
Working paper.

AWARDS

- **Jiang Zhen Scholarship**
Tsinghua University, 2021
- **Zheng Weimin Scholarship**
Tsinghua University, 2021
- **Cheng Siwei Scholarship**
Beihang University, 2014
- **Outstanding Student Scholarship (First Prize)**
Beihang University, 2013

SKILLS

- Python (Numpy, Scipy, TensorFlow, PyTorch), L^AT_EX