TIANYU ZHU

Montréal, Canada

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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: Guoqing Chen

- **Beihang University, Beijing, China**   August 2012 - June 2016
  B.S. in *Information Management and Information Systems*
  School of Economics and Management
  Advisor: Junjie Wu

WORK EXPERIENCE

- **Université de Montréal, Montréal**   October 2022 - present
  Postdoctoral Research Fellow
  Department of Computer Science and Operations Research
  Advisor: Jian-Yun Nie
  Food recommendation with grocery transactions

RESEARCH EXPERIENCE

- **Alibaba DAMO Academy, Hangzhou/Beijing**   December 2020 - October 2021
  Research Intern
  Department of Data Intelligence
  Advisor: Jiandong Ding
  Live-streaming sales prediction in Taobao

RESEARCH INTERESTS

- **Personalized Recommendation**
  Graph-based regularization in recommendation
  Economics and consumer behavior in recommendation
  Bias and Debias in recommendation
  Sequentiality in recommendation

PAPERS

- **Graph-based Embedding Smoothing for Sequential Recommendation**
  Tianyu Zhu, Leilei Sun, Guoqing Chen
  IEEE Transactions on Knowledge and Data Engineering (TKDE) (2021)

- **Embedding Disentanglement in Graph Convolutional Networks for Recommendation**
  Tianyu Zhu, Leilei Sun, Guoqing Chen
  IEEE Transactions on Knowledge and Data Engineering (TKDE) (2021)

- **Social Collaborative Mutual Learning for Item Recommendation**
  Tianyu Zhu, Guannan Liu, Guoqing Chen
  ACM Transactions on Knowledge Discovery from Data (TKDD) 14.4 (2020): 1-19.

- **Mult-BiW: Multinomial Likelihood with Bi-Weighting for Controlling Popularity Bias in Item Recommendation**
  Tianyu Zhu, Jiandong Ding, Yansong Shi, Feng Ji, Guoqing Chen
  Working paper.

- **PCALF: Modeling Price and Contextual Effects in E-commerce Live-streaming Sales Prediction**
  Tianyu Zhu, Yan Sun, Jiandong Ding, Guoqing Chen
  Working paper.

- **Revisiting the Effects of Long and Short-term Interests in Sequential Recommendation**
  Tianyu Zhu, Jian-Yun Nie
  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), LaTeX