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Education

- University of Illinois Chicago (UIC), Chicago, IL, USA
- 08/2018 05/2023 (Expected)

- Ph.D Candidate, Computer Science
- Advisor: Prof. Philip S. Yu
- Purdue University Indianapolis (IUPUI), IN, USA

08/2016 - 05/2018

- Master of Science, Computer & Information Science
- South China Agricultural University (SCAU), Guangzhou, China

09/2012 - 06/2016

- Bachelor of Engineering, College of Mathematics and Informatics

Experience

- Research and Teaching Assistant, Dept. of CS, UIC, Chicago, IL, USA
 - 08/2018 Present
 - Topic: Mutual Wasserstein Discrepancy Minimization for Recommendation (Submitted)
 - Topic: Sequential Recommendation with Multi-relation Self-Attention (BigData'22).
 - Topic: Stochastic Self-Attention for Sequential Recommendation (WWW'22).
 - Topic: Continuous-Time Sequential Recommendation (CIKM'21).
 - Topic: Modeling Sequences as Distributions (CIKM'21, Best Short Paper Nomination).
 - Topic: Pre-training and history generation for Cold-Start User Recommendation (SIGIR'21).
 - Topic: Spectral Graph Convolution for Sequential Recommendation (SIGIR'19).
 - Teaching Assistant for Several UIC CS Undergraduate and Graudate Level Courses.
- Research Intern, Salesforce Research, Palo Alto, California, USA

05/2022 - 08/2022

- Mentor: Zhiwei Liu and Yongjun Chen
- Topic: Product Knowledge Graph Pre-training.
- Applied Scientist Intern, AWS Personalize, Santa Clara, California, USA

02/2022 - 05/2022

- Mentor: Nghia Hoang, Hao Ding, and Anoop Deoras
- Topic: Personalized Federated Domain Adaptation Recommendation (Submitted)
- Research Scientist Intern, Spotify Research, NYC, New York, USA

05/2021 - 08/2021

- Mentor: Alice Wang and Zahra Nazari
- Topic: Discovery Episodes Ranking via Multi-source Augmentations (Arxiv 2023).
- Data Scientist Intern, Stitch Fix Inc, San Francisco, CA, USA

05/2020 - 08/2020

- Topic: Client-upload fashion images recommendation.
- Research Assistant, Dept. of CIS, IUPUI, Indianapolis, IN, USA

09/2016 - 04/2018

08/2013 - 03/2016

- Topic: Local low-rank top-n recommendation with Sparse Linear Method (MLRec'17).
- Topic: Collaborative filtering for electronic health record retrieval (ICHI'19, Plos-One'21).
- Research Assistant (2*CCGrid'15, ICMLC'16), SCAU, Guangzhou, China

Selected Publications (Full List in Google Scholar)

- [1] **Ziwei Fan**, Alice Wang, and Zahra Nazari. Episodes discovery recommendation with multi-source augmentations. arXiv preprint arXiv:2301.01737, 2023.
- [2] **Ziwei Fan**, Zhiwei Liu, Chen Wang, Peijie Huang, Hao Peng, and Philip S Yu. Sequential recommendation with auxiliary item relationships via multi-relational transformer. In 2022 IEEE International Conference on Big Data (BigData'22), 2022.
- [3] **Ziwei Fan**, Zhiwei Liu, Alice Wang, Zahra Nazari, Lei Zheng, Hao Peng, and Philip S. Yu. Sequential recommendation via stochastic self-attention. In *Proceedings of the ACM Web Conference* 2022 (WWW'22), page 20362047, New York, NY, USA, 2022.
- [4] Ziwei Fan*, Zhiwei, Liu*, Jiawei Zhang, Yun Xiong, Lei Zheng, and Philip S. Yu. Continuous-time sequential recommendation with temporal graph collaborative transformer. In *Proceedings of the 30th ACM International Conference on Information &; Knowledge Management (CIKM'21)*, CIKM '21, New York, NY, USA, 2021.
- [5] **Ziwei Fan**, Zhiwei Liu, Shen Wang, Lei Zheng, and Philip S. Yu. Modeling sequences as distributions with uncertainty for sequential recommendation. In *Proceedings of the 30th ACM International Conference on Information &; Knowledge Management (CIKM'21)*, 2021.
- [6] Ziwei Fan*, Zhiwei, Liu*, Yu Wang, and Philip S. Yu. Augmenting sequential recommendation with pseudo-prior items via reversely pre-training transformer. In *Proceedings of the 44th Inter*national ACM SIGIR Conference on Research and Development in Information Retrieval (SI-GIR'21), SIGIR '21, New York, NY, USA, 2021.
- [7] Lei Zheng, **Ziwei Fan**, Chun-Ta Lu, Jiawei Zhang, and Philip S. Yu. Gated spectral units: Modeling co-evolving patterns for sequential recommendation. In *Proceedings of the 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR'19), pages 1077–1080, 2019.*
- [8] **Ziwei Fan**, Evan Burgun, Titus Schleyer, and Xia Ning. Improving information retrieval from electronic health records using dynamic and multi-collaborative filtering. In 2019 IEEE International Conference on Healthcare Informatics (ICHI), pages 1–3, 2019.
- [9] Ziwei Fan, Peijie Huang, Peisen Huang, Linxiao Chen, Yuqing Xiao, Mingxiang Huo, and Yu Liang. A feature generation framework for google trace analysis. In *Machine Learning and Cybernetics*, 2015 International Conference on (ICMLC'15), volume 1, pages 229–234. IEEE, 2015.

Professional Services

• Sub-Reviewer for (SIGIR'22, CIKM'22, AAAI'22), External Reviewer for (KDD'21, KDD'22, ICDM'21), Reviewer for (TOIS, TKDD, PeerJ, JMLC).

Skills

- Programming Languages: Python, Java, C, Shell, SQL
- Software & Tools: Tensorflow, Pytorch
- Speaking Languages: English, Mandarin, Cantonese

Awards

• Peter and Deborah Wexler Graduate Student Award Scholarship, UIC	2018 - 2019
• Dean's Scholarship, IUPUI	2017 - 2018
• Undergraduate Merit Scholarship, SCAU	2014 - 2015