Fei Sun
Curriculum Vitae

Damo Academy
Alibaba Group
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Google scholar

EDUCATION

2012–2017 **Institute of Computing Technology, Chinese Academy of Sciences**
Ph.D. in Computer Science
○ Research Advisor: Prof. Jun Xu, Prof. Jiafeng Guo, & Prof. Xueqi Cheng
○ Thesis: *Distributed Text Representations Based on Distributional Hypothesis*

2009–2012 **Beijing Institute of Technology, School of Computer Science**
M.S. in Computer Science
– Research Advisor: Prof. Lejian Liao

2005–2009 **Beijing Institute of Technology, School of Software**
BEng in Software Engineering
– Rank: No.9 out of 213 undergraduates in school of software

RESEARCH INTEREST

NLP   Text Representation, Text Summarization
IR   Recommender System, Semantic Matching

WORK EXPERIENCE

2022– **Associate Professor**, *ICT*, *CAS*, Beijing
○ Automatic algorithm audit.
○ Machine Unlearning.

2020–2022 **Algorithm Expert**, *Alibaba Damo Academy*, Beijing
○ Machine unlearning in recommender system.
○ Conversational recommender system & faithfulness evaluation in text summarization.
○ privacy mechanism in recommender system.

2019–2020 **Algorithm Expert**, *Alibaba Recommendation Team*, Beijing
○ Hard negative samples mining and exposed but not clicked samples modeling in candidate generation of recommender system;
○ Improved candidate generation models in recommender system;
○ Representation learning & user modeling in recommender system.

2017–2019 **Senior Algorithm Engineer**, *Alibaba Recommendation Team*, Beijing
○ Improved the accuracy of CTR model with transformer architecture;
○ Optimized the displayed pictures of products to improve CTR in recommendation;
○ Short title generation for products in recommendation channel of Taobao App.

SKILLS

Programming   Python, PyTorch, TensorFlow, SQL, C/C++
Language   Chinese (native), English (fluent)
Others   Linux/Unix, LaTeX

Awards & Honors

11/2019   **RecSys 2019 Best Long Paper Runner-up**

Professional Activities

Senior PC   IJCAI 2021, AAAI 2022

Journal Reviewer   CSUR, TOIS, TKDE, TIST, JAIR, IPM

PC Member   ICML 2022–2023, NeurIPS 2022–2023, EMNLP 2016–2023, ACL 2019–2023, NAACL 2021, EACL 2017, EACL 2021, AAAI 2019–2023, IJCAI 2021–2023, SIGIR 2019–2023, WWW 2019–2023, KDD 2021–2022, WSDM 2021–2023, CIKM 2020-2022, ECIR 2019, COLING 2020

Organizer   NLP4Rec: WSDM 2020 workshop

Selected Publications

Full List   https://scholar.google.com/citations?user=OlRxBhcAAAAJ

Recommender System

TOIS 2023   Ziqian Chen, **Fei Sun***, Yifan Tang, Haokun Chen, Jinyang Gao, Bolin Ding. Studying the Impact of Data Disclosure Mechanism in Recommender Systems via Simulation. ***corresponding author**.

CSUR 2022   Shiwen Wu, **Fei Sun***, Wentao Zhang, Xu Xie, Bin Cui. Graph Neural Networks in Recommender Systems: A Survey. ***Equally Contributed**.

WWW 2022   Chong Chen, **Fei Sun***, Min Zhang, Bolin Ding. Recommendation Unlearning. ***corresponding author**.

ICDE 2022   Xu Xie, **Fei Sun**, Zhaoyang Liu, Shiwen Wu, Jinyang Gao, Jiandong Zhang, Bolin Ding, Bin Cui. Contrastive Learning for Sequential Recommendation.

WWW 2021   Shuchang Liu, **Fei Sun***, Yingqiang Ge, Changhua Pei and Yongfeng Zhang. Variation Control and Evaluation for Generative Slate Recommendations. ***corresponding author**.

ICDE 2021   Xu Xie, **Fei Sun***, Xiaoyong Yang, Zhao Yang, Jinyang Gao, Wenwu Ou and Bin Cui. Explore User Neighborhood for Real-time E-commerce Recommendation. ***corresponding author**.

TOIS 2020   Yuan Zhang, **Fei Sun***, Xiaoyong Yang, Chen Xu, Wenwu Ou, and Yan Zhang. Graph-based Regularization on Embedding Layers for Recommendation. ***corresponding author**.

SIGIR 2021   Yang Deng, Yaliang Li, **Fei Sun**, Bolin Ding, Wai Lam. Unified Conversational Recommendation Policy Learning via Graph-based Reinforcement Learning.

IJCAI 2020   Zhaoyang Liu, Haokun Chen, **Fei Sun**, Xu Xie, Jinyang Gao, Bolin Ding, Yanyan Shen. Intent Preference Decoupling for User Representation on Online Recommender System.

RecSys 2019   Xiao Lin, Hongjie Chen, Changhua Pei, **Fei Sun**, Xuanji Xiao, Hanxiao Sun, Yongfeng Zhang, Wenwu Ou and Peng Jiang. A Pareto-Efficient Algorithm for Multiple Objective Optimization in E-Commerce Recommendation. **Best Long Paper Runner-up**.

RecSys 2019   Changhua Pei, Yi Zhang, Yongfeng Zhang, **Fei Sun**, Xiao Lin, Hanxiao Sun, Jian Wu, Peng Jiang, Junfeng Ge and Wenwu Ou. Personalized Re-ranking for E-commerce Recommender Systems.

CIKM 2019   **Fei Sun**, Jun Liu, Jian Wu, Changhua Pei, Xiao Lin, Wenwu Ou and Peng Jiang. BERT4Rec: Sequential Recommendation with Bidirectional Encoder Representations from Transformer.

KDD 2019   Wen Chen, Pipei Huang, Jiaming Xu, Xin Guo, Cheng Guo, **Fei Sun**, Chao Li, Andreas Pfadler, Huan Zhao, Binqiang Zhao. POG: Personalized Outfit Generation for Fashion Recommendation at Alibaba iFashion.

CIKM 2018   Qiaolin Xia, Peng Jiang, **Fei Sun**, Yi Zhang, Xiaobo Wang, and Zhifang Sui. Modeling Consumer Buying Decision for Recommendation Based on Multi-Task Deep Learning.

Summarization & Dialogue

EMNLP 2021   Yuexiang Xie, **Fei Sun**, Yang Deng, Yaliang Li, Bolin Ding. Factual Consistency Evaluation for Text Summarization via Counterfactual Estimation.

CIKM 2020   Changying Hao, Liang Pang, Yanyan Lan, **Fei Sun**, Jiafeng Guo and Xueqi Cheng. Ranking Enhanced Dialogue Generation.

AAAI 2020   Min Yang, Chengming Li, **Fei Sun**, Zhou Zhao, Ying Shen, Chenglin Wu. Be Relevant, Non-redundant, Timely: Deep Reinforcement Learning for Real-time Event Summarization.

ACL 2019   Hui Su, Xiaoyu Shen, Rongzhi Zhang, **Fei Sun**, Pengwei Hu, Cheng Niu and Jie Zhou. Improving Multi-turn Dialogue Modelling with Utterance ReWriter.

CIKM 2018   **Fei Sun**, Peng Jiang, Hanxiao Sun, Changhua Pei, Wenwu Ou, and Xiaobo Wang. Multi-Source Pointer Network for Product Title Summarization.

Text Representation

CJC 2019   **Fei Sun**, Jiafeng Guo, Yanyan Lan, Jun Xu, and Xueqi Cheng. A Survey on Distributed Word Representation.

IJCAI 2016   **Fei Sun**, Jiafeng Guo, Yanyan Lan, Jun Xu, and Xueqi Cheng. Sparse Word Embeddings Using ℓ_1 Regularized Online Learning.

AAAI 2016   **Fei Sun**, Jiafeng Guo, Yanyan Lan, Jun Xu, and Xueqi Cheng. *Inside Out*: Two Jointly Predictive Models for Word Representations and Phrase Representations.

EMNLP 2015   Yanran Li, Wenjie Li, **Fei Sun**, and Sujian Li. Component-enhanced chinese character embeddings.

ACL 2015   **Fei Sun**, Jiafeng Guo, Yanyan Lan, Jun Xu, and Xueqi Cheng. Learning word representations by jointly modeling syntagmatic and paradigmatic relations.

Network Analysis

PAKDD 2020   Tianshu Lyu, **Fei Sun**, and Yan Zhang. Node Conductance: A Scalable Node Centrality Measure on Big Networks.

RecSys 2019   Tianshu Lyu, **Fei Sun***, Peng Jiang, Wenwu Ou and Yan Zhang. Compositional Network Embedding for Link Prediction. ***corresponding author**.

IJCAI 2019   Yun Wang, Lun Du, Guojie Song, Xiaojun Ma, Lichen Jin, Wei Lin, and **Fei Sun**. Tag2Gauss: Learning Tag Representations via Gaussian Distribution in Tagged Networks.

Information Extraction

KAIS 2015   Dandan Song, **Fei Sun**, and Lejian Liao. A hybrid approach for content extraction with text density and visual importance of dom nodes. 2015

SIGIR 2011   **Fei Sun**, Dandan Song, and Lejian Liao. Dom based content extraction via text density.