

# Tinglin Huang

VISITING STUDENT, TSINGHUA UNIVERSITY

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EDUCATION	<b>Tsinghua University</b> Visiting student at Department of Computer Science and Technology • <b>Advisor:</b> Prof. Jie Tang	Beijing, China Dec. 2020 - Present
	<b>Zhejiang University</b> M.Eng. in Software Engineering • <b>Advisor:</b> Prof. Xinyu Wang	Hangzhou, China Sep. 2019 - Present
	<b>Shenzhen University</b> B.Eng. in Software Engineering with honor • <b>GPA:</b> 3.96/4.5 <b>Ranking:</b> Top 5%	Shenzhen, China Sep. 2015 - Jun. 2019

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RESEARCH INTERESTS	<b>Data Mining:</b> Recommendation System, Network Embedding <b>Machine Learning:</b> Graph Neural Network, Self-Supervised Learning
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PUBLICATIONS	<b>Tinglin Huang</b> , Yuxiao Dong, Ming Ding, Zhen Yang, Wenzheng Feng, Xinyu Wang, Jie Tang. “MixGCF: An Improved Training Method for Graph Neural Network-based Recommender Systems”. In <i>Conference on Knowledge Discovery and Data Mining (KDD)</i> , 2021
	Xiang Wang*, <b>Tinglin Huang*</b> , Dingxian Wang, Yancheng Yuan, Zhenguang Liu, Xiangnan He and Tat-Seng Chua. “Learning Intents behind Interactions with Knowledge Graph for Recommendation”. In <i>International World Wide Web Conferences (WWW)</i> , 2021 ( <b>Oral Presentation, Best Paper Shortlist</b> )
	<b>Tinglin Huang</b> , Yinlin He, Dexin Dai, Wenting Wang, Joshua Zhexue Huang. “Neural Network-Based Deep Encoding for Mixed-Attribute Data Classification”. In <i>Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)</i> , 2019
	Yingying Zhu, Min Tong, <b>Tinglin Huang</b> , Zhengkun Wen, Qi Tian. “Learning Affective Features Based on VIP for Video Affective Content Analysis”. In <i>Pacific Rim Conference on Multimedia (PCM)</i> , 2018

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AWARDS & ACHIEVEMENTS	Excellent graduate scholarship of Zhejiang University Excellent graduates of Shenzhen University Four years of Merit Scholarship <b>2<sup>nd</sup></b> Prize, Chinese Undergraduate Mathematics Contest in Modeling <b>3<sup>rd</sup></b> Prize, Chinese Undergraduate Computer Design Contest	Jun. 2021 Jun. 2019 Sep. 2016, 2018, 2019 Jul. 2018 Sep. 2017
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RESEARCH EXPERIENCE	<b>Knowledge Engineering Group</b> Advisor : Prof. Jie Tang and Dr. Yuxiao Dong <i>MixGCF: An Improved Training Method for Graph Neural Network-based Recommender Systems</i> - Given a user, the task of collaborative filtering (CF) is to provide a ranked list of items, where a fundamental challenge is to distill negative signals from the implicit feedback. - Explored a general negative sampling plugin (MixGCF) for Graph Neural Network based CF method, which applies the hop mixing technique to synthesize hard negatives rather than	Tsinghua University Dec. 2020 - Present
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sampling existing ones.

- Experimental results show that MixGCF yields the best performance over the other baseline models, with which the GNN-based recommender can be significant improved, e.g., 26% for LightGCN on NDCG@20.

**NExT++ Center**

National University of Singapore

Advisor : Prof. *Tat-Seng Chua* and Dr. *Xiang Wang*

*May. 2020 - Nov. 2020*

*Learning Intents behind Interactions with Knowledge Graph for Recommendation*

- Proposed a knowledge graph-based recommendation model, KGIN, which consider user-item relationships at the finer granularity of intents and long-range semantics of relational paths under the GNN paradigm.
  - Empirical studies show that KGIN achieves significant improvements across three benchmark datasets in terms of all measures, w.r.t. NDCG@20 by 14.51%, 13.97%, and 5.91% in Amazon-Book, Last-FM, and Alibaba-iFashion, respectively.
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