

## Yuntao Du

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PERSONAL INFORMATION	Ph.D. student Department of Computer Science, Purdue University 305 N. University St., West Lafayette, IN 47907, USA	<i>Phone:</i> (+1)765-409-8705 <i>Email:</i> ytdu@purdue.edu <a href="http://zealscott.com">http://zealscott.com</a>
RESEARCH INTERESTS	Data Privacy, Machine Learning, Data Mining.	
EDUCATION	<b>Purdue University</b> , West Lafayette, IN, USA <i>Ph.D.</i> in Computer Science	Aug 2023 – May 2028 (expected)
	<b>Zhejiang University</b> , Zhejiang, China <i>Master of Engineering</i> in Computer Technology Graduated with the highest distinction.	Sep 2020 – Mar 2023
	<b>East China Normal University</b> , Beijing, China <i>Bachelor of Engineering</i> in Data Science Graduated with the highest distinction.	Sep 2015 – Jun 2010
HONORS AND AWARDS	SIGIR Student Travel Grant Ross Fellowship, Purdue University Herbold Scholarship, Purdue University Presidential Doctoral Excellence Awards, Purdue University Provincial Outstanding Graduates, Zhejiang University National Scholarship, Zhejiang University Excellent Graduate Student, Zhejiang University National Scholarship, Zhejiang University Excellent Undergraduate Student, East China Normal University Special Scholarship, East China Normal University	2022&2023 2023 2023 2023 2023 2022 2021 2021 2020 2016
PUBLICATIONS	Xinjun Zhu, <b>Yuntao Du</b> , Yuren Mao, Lu Chen, Yujia Hu, Yunjun Gao. Knowledge-refined Denoising Network for Robust Recommendation. In Proceedings of the 46th International ACM SIGIR conference on research and development in Information Retrieval (SIGIR), 2023.	
	Minjun Zhao, Lu Chen, Keyu Yang, <b>Yuntao Du</b> , Yunjun Gao. Finding Materialized Models for Model Reuse. IEEE Transactions on Knowledge and Data Engineering (TKDE), 2023.	
	<b>Yuntao Du</b> , Yujia Hu, Zhikun Zhang, Ziquan Fang, Lu Chen, Baihua Zheng, Yunjun Gao. LDPTrace: Locally Differentially Private Trajectory Synthesis. In Proceedings of the 49th International Conference on Very Large Data Bases (VLDB), 2023.	
	<b>Yuntao Du</b> , Jianxun Lian, Jing Yao, Xiting Wang, Mingqi Wu, Lu Chen, Yunjun Gao, Xing Xie. Towards Explainable Collaborative Filtering with Taste Clusters Learning. In Proceedings of the Web Conference (WWW), 2023.	

Zihao Zeng, **Yuntao Du**, Ziquan Fang, Lu Chen, Shiliang Pu, Guodong Chen, Hui Wang, Yunjun Gao. FLBooster: A Unified and Efficient Platform for Federated Learning Acceleration. In Proceedings of the 39th IEEE International Conference on Data Engineering (ICDE), 2023.

Ziquan Fang, **Yuntao Du**, Xinjun Zhu, Danlei Hu, Lu Chen, Yunjun Gao, Christian S. Jensen. Spatio-Temporal Trajectory Similarity Learning in Road Networks. In Proceedings of the 28th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2022.

**Yuntao Du**, Xinjun Zhu, Lu Chen, Baihua Zheng, Yunjun Gao. HAKG: Hierarchy-Aware Knowledge Gated Network for Recommendation. In Proceedings of the 45th International ACM SIGIR conference on research and development in Information Retrieval (SIGIR), 2022.

Yunjun Gao, **Yuntao Du**, Yujia Hu, Lu Chen, Xinjun Zhu, Baihua Zheng. Self-Guided Learning to Denoise for Robust Recommendation. In Proceedings of the 45th International ACM SIGIR conference on research and development in Information Retrieval (SIGIR), 2022.

**Yuntao Du**, Xinjun Zhu, Lu Chen, Ziquan Fang, Yunjun Gao. MetaKG: Meta-learning on Knowledge Graph for Cold-start Recommendation. IEEE Transactions on Knowledge and Data Engineering (TKDE), 2022.

Ziquan Fang, **Yuntao Du**, Lu Chen, Yujia Hu, Yunjun Gao and Gang Chen. E<sup>2</sup>DTC: An End to End Deep Trajectory Clustering Framework via Self-Training. In Proceedings of the 37th IEEE International Conference on Data Engineering (ICDE), 2021.

Ziquan Fang, Lu Pan, Lu Chen, **Yuntao Du**, Yunjun Gao. MDTP: A Multi-source Deep Traffic Prediction Framework over Spatio-Temporal Trajectory Data. In Proceedings of the 47th International Conference on Very Large Data Bases (VLDB), 2021.

RESEARCH EXPERIENCE     *Research Intern*, Microsoft Research Asia (MSRA)     May 2022 – Jan 2023  
· Advisor: Dr. Jianxun Lian & Dr. Xing Xie  
· Devising a new cluster-based explainable recommendation method in a flexible, coherent, and self-explainable way. The proposed method has been deployed on Xbox Gaming for game recommendation, and the related paper is accepted by WWW'23.

LEADERSHIP AND SERVICE     **Conference Reviewer**  
The AAAI Conference on Artificial Intelligence (AAAI): 2023.  
ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR): 2023.  
International ACM SIGIR Conference on Information Retrieval in the Asia Pacific (SIGIR-AP): 2023.

**Journal Reviewer**  
IEEE Transactions on Knowledge and Data Engineering (TKDE)  
ACM Transactions on Recommender Systems (TORS)