

# MENGYUE YANG

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## Education

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**University College London**

*Sep 2020 – Present*

*Ph.D. student*

*Major: Computer Science*

*Supervisor: Prof. Jun Wang*

**University of Chinese Academy of Sciences (UCAS)**

*Sep 2017 – Jul 2020*

*M.Sc.*

*Major: Computer Application Technology*

**Beijing Jiaotong University**

*Sep 2012 – Jul 2016*

*B.Sc.*

*Major: Software Engineering*

## Publication

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1. **Mengyue Yang**, Zhen Fang, Yonggang Zhang, and Yali Du, Furui Liu, Jean-Francois Ton, Jianhong Wang, Jun Wang. Invariant Learning via Probability of Sufficient and Necessary Causes. NeurIPS 2023 (**Spotlight!**)
2. **Mengyue Yang**, Xinyu Cai, Furui Liu, Xu Chen, Zhitang Chen, Jianye Hao, Jun Wang. Generalizable Information Theoretic Causal Representation. KDD 2023 (*full paper*)
3. **Mengyue Yang**, Jun Wang, Jean-Francois Ton. Rectifying Unfairness in Recommendation Feedback Loops. SIGIR 2023 (*full paper*)
4. **Mengyue Yang**, Guohao Cai, Furui Liu, Zhenhua Dong, Xiuqiang He, Jianye Hao, Jun Wang, Xu Chen. Debiased Recommendation with User Feature Balancing. ACM TOIS
5. **Mengyue Yang\***, Quanyu Dai\*, Zhenhua Dong, Xu Chen, Xiuqiang He, Jun Wang Top-N Recommendation with Counterfactual User Preference Simulation. CIKM 2021 (*full paper*)
6. **Mengyue Yang**, Furui Liu, Zhitang Chen, Jianye Hao, Jun Wang. CausalVAE: disentangled representation learning via neural structural causal models CVPR 2021
7. **Mengyue Yang**, Qingyang Li, Zhiwei Qin, Jieping Ye. Hierarchical Adaptive Contextual Bandits for Resource Constraint based Recommendation. WWW 2020 (*full paper*)
8. Weiyang Qu, Yang Yu, Qingyang Li, Zhiwei Qin, **Mengyue Yang**, Yiping Meng, Jieping Ye. Offline Reinforcement Learning via Trajectory Synthesis. NeurIPS2019 workshop on deep reinforcement learning
9. Junruo Gao, **Mengyue Yang**, Yuyang Liu, Jun Li. Deconfounding Representation Learning Based on User Interactions in Recommendation Systems PAKDD 2021
10. Jiarui Jin, Xianyu Chen, Weinan Zhang, **Mengyue Yang**, Yang Wang, Yali Du, Yong Yu, Jun Wang. Replace Scoring with Arrangement: A Contextual Set-to-Arrangement Framework for Learning-to-Rank. CIKM 2023 (*full paper*)
11. Xidong Feng, Yicheng Luo, Ziyang Wang, Hongrui Tang, **Mengyue Yang**, Kun Shao, David Mguni, Yali Du, Jun Wang. ChessGPT: Bridging Policy Learning and Language Modeling. NeurIPS 2023

12. Jiarui Jin, Xianyu Chen, Fanghua Ye, **Mengyue Yang**, Yue Feng, Weinan Zhang, Yong Yu, Jun Wang. Lending Interaction Wings to Recommender Systems with Plug-and-Play Conversational Agents. NeurIPS 2023

## Preprint

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1. Minne Li\*, **Mengyue Yang\***, Furui Liu, Xu Chen, Zhitang Chen, Jun Wang. Causal World Models by Unsupervised Deconfounding of Physical Dynamics.
2. Jiarui Jin, Zexue He, **Mengyue Yang**, Weinan Zhang, Yong Yu, Jun Wang, Julian McAuley. InfoRank: Unbiased Learning-to-Rank via Conditional Mutual Information Minimization.
3. Jiarui Jin\*, Yuwei Wu\*, **Mengyue Yang\***, Xiaoting He, Weinan Zhang, Yiming Yang, Yong Yu, Jun Wang. Manage Your Plug-in Data for Language Models: A Data-Centric Approach.

## Internships

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### TikTok

*Research Intern in Bytedance Research*

Supervised by Dr. Hang Li and Dr. Jean-Francois Ton

Mainly responsible for exploring methods in causal fairness recommendation system.

*London, United Kingdom*

*Feb 2022– Jul 2022*

### Microsoft

*Software Engineer Summer Intern of STCA, Ads Data & AI Platform Team*

Mainly responsible for testing the performance of machine learning training in the integrated environment on large scale cloud compute system (Azure ML).

*Beijing, China*

*Jul 2019 – Oct 2019*

### Didi

*Research Intern in AI Labs, Reinforcement Learning Group*

Supervised by Dr. Zhiwei Qin and Dr. Qingyang Li

Explored online learning strategies and proposed recommendation algorithm under budget limitation.

*Beijing, China*

*Sep 2018 – Jul 2019*

## Service

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Reviewer of TNNLS, KDD, NeurIPS, ICML, ICLR, SDM.

Teaching assistant at UCL: COMP0124 Multi-agent Artificial Intelligence.

## Award

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**Third Prize** of National University Students Computer Design Competition

**First Prize** of Beijing Competition Area in National University Students Computer Design Competition

**Excellence Award** of 2015 Beijing Jiaotong University Student Scientific Research and Training Project

**First Prize** of the 2014 Youth Science Popularization Innovation Competition

**Second Prize** of Chinese Physics Olympiad (2011) provincial level