

# MENGYUE YANG

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## Education

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**University College London**

*Sep 2020 – Present 2020*

*Major: Computer Science*

*Supervisor: Prof. Jun Wang*

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

*Sep 2017 – Jul 2020*

*Major: Computer Application Technology*

**Beijing Jiaotong University**

*Sep 2012 – Jul 2016*

*Major: Software Engineering*

## Publication

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1. **Mengyue Yang**, Guohao Cai, Furui Liu, Zhenhua Dong, Xiuqiang He, Jianye Hao, Jun Wang, Xu Chen. Debiased Recommendation with User Feature Balancing. ACM TOIS
2. **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!**)
3. **Mengyue Yang**, Xinyu Cai, Furui Liu, Xu Chen, Zhitang Chen, Jianye Hao, Jun Wang. Generalizable Information Theoretic Causal Representation. KDD 2023 (*full paper*)
4. **Mengyue Yang**, Jun Wang, Jean-Francois Ton. Rectifying Unfairness in Recommendation Feedback Loops. SIGIR 2023 (*full paper*)
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

**London, United Kingdom**

*Feb 2022–Jul 2022*

- Mainly responsible for exploring methods in causal fairness recommendation system.

### Microsoft

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

**Beijing, China**

*Jul 2019 – Oct 2019*

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

### Didi

*Research Intern in AI Labs, Reinforcement Learning Group*

Supervised by Dr. Zhiwei Qin and Dr. Qingyang Li

**Beijing, China**

*Sep 2018 – Jul 2019*

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

## 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