班义琨

邮箱：yikunb@buaa.edu.cn
电话：+86-15937052862
个人主页：www.banyikun.com

研究兴趣

Contextual Bandits, Reinforcement Learning with Human Feedback, Language Models with Exploration

教育背景

伊利诺伊大学香槟分校(University of Illinois Urbana-Champaign)，美国伊利诺伊州   2019年8月- 2023年12月
博士，计算机科学系
导师：Jingrui He, Hanghang Tong, Arindam Banerjee

北京大学，中国北京   2016年9月- 2019年6月
硕士，计算机系
导师：程旭

武汉大学，中国武汉   2012年9月- 2016年6月
学士，软件工程学院

工作经历

博士后，伊利诺伊大学香槟分校，美国伊利诺伊州   2024年1月- 2024年10月
主要合作：Jingrui He, Hanghang Tong，Arindam Banerjee

应用科学家实习生，亚马逊云服务，美国西雅图   2022年5月- 2022年8月
主要研究：Multi-fidelity Hyperparameter Optimization, Neural Bandits, Gaussian Process

学术论文

(* 共同第一作者)

- Yunzhe Qi, **Yikun Ban**, Arindam Banerjee, Jingrui He. "Robust Neural Contextual Bandit against Adversarial Corruptions." Thirty-eighth Conference on Neural Information Processing Systems (**NeurIPS'24**) (**CCF-A**)

- **Yikun Ban***, Jiaru Zou*, Zihao Li, Yunzhe Qi, Dongqi Fu, Jian Kang, Hanghang Tong, Jingrui He. "PageRank Bandits for Link Prediction." Thirty-eighth Conference on Neural Information Processing Systems (**NeurIPS'24**) (**CCF-A**)

- **Yikun Ban**, Yuchen Yan, Arindam Banerjee, Jingrui He. "Neural Exploitation and Exploration of Contextual Bandits" Accepted by Journal of Machine Learning Research (**JMLR**) (**CCF-A**)

- **Yikun Ban***, Yunzhe Qi*, Tianxin Wei, Lihui Liu, Jingrui He. "Meta Clustering of Neural Bandits." 30th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD'24**) (**CCF-A**)

- **Yikun Ban**, Ishika Agarwal, Ziwei Wu, Yada Zhu, Kommy Weldemariam, Hanghang Tong, and Jingrui He. "Neural Active Learning beyond Bandits." 12th International Conference on Learning Representations (**ICLR'24**).

- Rohan Deb, **Yikun Ban**, Shiliang Zuo, Jingrui He, Arindam Banerjee. "Contextual Bandits with Online Neural Regression." 12th International Conference on Learning Representations (**ICLR'24**).

- **Yikun Ban**, Yunzhe Qi, Jingrui He. "Neural Contextual Bandits for Personalized Recommendation." The Web Conference 2024, Tutorial (**WWW'24**) (**CCF-A**)

- Yunzhe Qi*, **Yikun Ban***, Tianxin Wei, Jiaru Zou, Huaxiu Yao, and Jingrui He. "Meta-Learning with Neural Bandit Scheduler." Thirty-seventh Conference on Neural Information Processing Systems (**NeurIPS'23**) (**CCF-A**)

- Yunzhe Qi*, **Yikun Ban***, and Jingrui He. "Graph Neural Bandits." 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD'23**) (**CCF-A**)

- **Yikun Ban***, Yuheng Zhang*, Hanghang Tong, Arindam Banerjee, and Jingrui He. "Improved Algorithms for Neural Active Learning." Thirty-sixth Conference on Neural Information Processing Systems (**NeurIPS'22**) (**CCF-A**)

- Dongqi Fu, **Yikun Ban**, Hanghang Tong, Ross Maciejewski, and Jingrui He. "DISCO: Comprehensive and Explainable Disinformation Detection." ACM International Conference on Information and Knowledge Management (**CIKM'22**) (**CCF-B**)

- Yunzhe Qi, **Yikun Ban**, and Jingrui He. "Neural Bandit with Arm Group Graph." 28th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD'22**) (**CCF-A**)

- **Yikun Ban**, Yuchen Yan, Arindam Banerjee, and Jingrui He. "EE-Net: Exploitation-Exploration Neural Networks in Contextual Bandits." 10th International Conference on Learning Representations (**ICLR'22, Spotlight, 5% Acceptance Rate**)

- **Yikun Ban** and Jingrui He."Convolutional neural bandit: Provable algorithm for visual-aware advertising." arXiv preprint arXiv:2107.07438, 2021.

- **Yikun Ban**, Jingrui He, and Curtiss B. Cook. "Multi-Facet Contextual Bandits: A Neural Network Perspective." 27th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD'21**) (**CCF-A**)

- **Yikun Ban**, Jingrui He. "Local Clustering in Contextual Multi-Armed Bandits." The Web Conference 2021 (**WWW'21**) (**CCF-A**)

- Yuchen Yan, Lihui Liu, **Yikun Ban**, Bayou Jing, and Hanghang Tong. "Dynamic Knowledge Graph Alignment." 35th AAAI Conference on Artificial Intelligence (**AAAI'21**) (**CCF-A**)

- **Yikun Ban**, Jingrui He. "Generic Outlier Detection in Multi-Armed Bandit." 26th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD'20**) (**CCF-A**)
- **Yikun Ban**, Xin Liu, Ling Huang, Yitao Duan, Xue Liu, and Wei Xu. "No Place to Hide: Catching Fraudulent Entities in Tensors." The Web Conference 2021 (**WWW'19**) (**CCF-A**)

代表荣誉奖项

- UIUC Conference Presentation Award，2024
- UIUC CS Fellowship，2022
- NeurIPS Scholar Award, 2022
- ICML Outstanding Reviewer, 2022
- KDD Student Travel Awards, 2020-2022
- 北京大学杰出毕业生，2019
- 武汉大学杰出毕业生, 2016
- "中国软件杯"大学生软件设计大赛全国一等奖，2015
- "创青春"全国大学生创业大赛全国银奖，湖北省金奖，2014

学术服务

Program Committee | Reviewer
- International Conference on Learning Representations (ICLR), 2023-2025
- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2021-2025
- Conference on Neural Information Processing Systems (NeurIPS), 2022-2025
- International Conference on Machine Learning (ICML), 2022-2025
- AAAI Association for the Advancement of Artificial Intelligence (AAAI), 2022
- SIAM International Conference on Data Mining (SDM), 2022
- IEEE International Conference on Big Data (BigData), 2022
- International Joint Conferences on Artificial Intelligence (IJCAI), 2021
- Conference on Information and Knowledge Management (CIKM), 2021

Journal Reviewer
- IEEE Transactions on Knowledge and Data Engineering (TKDE), 2022
- ACM Transactions on Knowledge Discovery from Data (TKDD), 2022

教学经历

(联合)教师，伊利诺伊大学香槟分校   2024年8月- 2024年10月
课程：IS577 Data Mining
与Jingrui He教授共同授课

助教，伊利诺伊大学香槟分校   2021年8月- 2021年12月
课程：CS412 Introduction to Data Mining
教师：Arindam Banerjee

助教，北京大学   2017年9月- 2018年1月
课程：计算机基础
教师: 钱艳丽