

Jiarui Qin

310 YiFu Building – Shanghai Jiao Tong University – Shanghai, China

✉ jiaruiqin.me

✉ qinjr[AT]icloud.com

EDUCATION

Shanghai Jiao Tong University

Sept. 2019 - Mar. 2022 (expected)

- MSc. in Computer Science
- GPA: 3.83/4.0
- Advisors: Prof. [Weinan Zhang](#) and Prof. [Yong Yu](#).

Shanghai Jiao Tong University

Sept. 2015 - Jun. 2019

- B.Eng. in Software Engineering
- GPA: Overall: 88.5/100 | Major: 89.7/100 (Ranking: 9/94)
- Advisors: Prof. [Weinan Zhang](#) and Prof. [Yong Yu](#).

RESEARCH INTERESTS

My research interests lie in general area of machine learning and deep learning, especially their applications in networks, recommender systems and computational advertising.

PUBLICATIONS

Deep Learning for Click-Through Rate Estimation

- Weinan Zhang, **Jiarui Qin**, Wei Guo, Ruiming Tang, Xiuqiang He.
- In Proceedings of 30th International Joint Conference on Artificial Intelligence. **IJCAI 2021 Survey Track**.

User Behavior Retrieval for Click-Through Rate Prediction

- **Jiarui Qin**, Weinan Zhang, Xin Wu, Jiarui Jin, Yuchen Fang, Yong Yu.
- In Proceedings of the 43th International ACM SIGIR Conference on Research and Development in Information Retrieval. **SIGIR 2020**.

An Efficient Neighborhood-based Interaction Model for Recommendation on Heterogeneous Graph

- Jiarui Jin, **Jiarui Qin**, Yuchen Fang, Kounianhua Du, Weinan Zhang, Yong Yu, Zheng Zhang, Alexander J. Smola.
- In Proceeding of the 25nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining. **KDD 2020**.

Sequential Recommendation with Dual Side Neighbor-based Collaborative Relation Modeling

- **Jiarui Qin**, Kan Ren, Yuchen Fang, Weinan Zhang, Yong Yu.
- In Proceedings of the 13th ACM International Conference on Web Search and Data Mining. **WSDM 2020**.

Lifelong Sequential Modeling with Personalized Memorization for User Response Prediction

- Kan Ren*, **Jiarui Qin***, Yuchen Fang*(equal contribution), Weinan Zhang, Lei Zheng, Weijie Bian, Guorui Zhou, Jian Xu, Yong Yu, Xiaoqiang Zhu, Kun Gai.
- In Proceedings of the 42th International ACM SIGIR Conference on Research and Development in Information Retrieval. **SIGIR 2019**.

Deep Landscape Forecasting for Real-time Bidding Advertising

- Kan Ren, **Jiarui Qin**, Lei Zheng, Weinan Zhang, Yong Yu.
- In Proceedings of the 25th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining. **KDD 2019**.

Deep Recurrent Survival Analysis

- Kan Ren, **Jiarui Qin**, Lei Zheng, Zhengyu Yang, Weinan Zhang, Lin Qiu, Yong Yu.
- In Proceedings of the Thirty-Third AAAI Conference on Artificial Intelligence. **AAAI 2019**.

INTERNSHIP

Huawei Noah's Ark Lab

Research Intern

Sept. 2020 -

- Research Intern in Recommendation & Searching Lab of Noah's Ark Lab.
- Retrieval-based method for prediction task on multi-field categorical data.

Alibaba Group

Research Intern

Sept. 2018 - Jan. 2019

- Research Intern in Alimama Ranking&ML Group for Display Ads.
- Memory Networks for Long User Sequence Modeling: Research about modeling the extremely long user behavior sequences to improve CTR prediction performance in online display advertising of Taobao.

HONORS AND AWARDS

- **Excellent Intern**, Huawei Noah's Ark Lab. 2020
- **Innovation Pioneer**, Huawei Noah's Ark Lab. 2020
- **National Scholarship** (Top 2% in CS Department), Chinese Ministry of Education. 2020
- **SIGIR 2020 Student Travel Awards**, ACM. 2020
- **KDD 2019 Student Travel Awards**, ACM. 2019
- **Wish Scholarship** (Top 5% in SE Department). 2017
- **B-class Scholarship for Excellent Academic Performance** (Top 10 % in SJTU). 2016
- **C-class Scholarship for Excellent Academic Performance** (Top 30 % in SJTU). 2017
- **Member of SJTU RONG CHANG CHUCAI Program** (Top 2% in SJTU). 2016-2019

RESEARCH EXPERIENCE

User Behavior Retrieval for CTR Prediction

Nov. 2019 - April. 2020

- Designed a framework for CTR prediction which will first retrieve most relevant user behaviors instead of using recent N behaviors.
- Accepted as an oral paper at **SIGIR 2020**, first author.

Sequential Recommendation with CF Relations Modeling

Feb. 2019 - Aug. 2019

- Designed a new sequential recommendation method that considers cross neighbor collaborative relations modeling that improve the recommendation performance.
- Accepted as an poster paper at **WSDM 2020**, first author.

Lifelong User Modeling

Sept. 2019 - Jan. 2019

- Design a new RNN-based method for market price distribution for real-time bidding advertising.
- Accepted as an oral paper at **SIGIR 2019**, co-first author.
- The work is done during the internship at Alibaba Group, Beijing, China.

Deep Learning for Bid Landscape Forecasting

Oct. 2018 - Jan. 2019

- Tackles with lifelong sequential user behavior modeling and captures multi-scale sequential dependencies which is an applied methodologies in user response prediction problems.
- Accepted as an oral paper at **KDD 2019**, second author.

Deep Learning for Survival Analysis

Oct. 2017 - May. 2018

- Utilized deep learning for flexible time-to-event data modeling and it is first work using auto-regressive modeling for survival analysis.
- Accepted as an oral paper at **AAAI 2019**, second author.

SERVICE

- PC member of FCS journal.
- Reviewer of CIKM, WSDM, SIGIR, AAAI, KDD, CSUR.
- Teaching Assistant for undergraduate course SE117-Programming and Data Structure, School of Software, SJTU, 2016.

OPEN-SOURCE PROJECTS

- Implementation of UBR4CTR.
- Implementation of SCoRe.
- Implementation of HPMN.
- Implementation of DRSA.
- Implementation of DLF.

SKILLS AND TESTS

- **Programming Language:** Python, C/C++, Java, Javascript.
- **Framework:** Tensorflow, Pytorch, DGL.
- **TOEFL:** 100 (L:24, S:23, R:26, W:27).
- **CET-6:** 597.
- **CET-4:** 639.