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: 3.88/4.0
- 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

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
- **Jiarui Qin***, Kan Ren*, 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

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

- **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

- Sub-reviewer of CIKM, WSDM, SIGIR.
- 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.