

**Email:** ntguojiarui@pku.edu.cn

**GitHub:** github.com/ntguojiarui

**Homepage:** <https://ntguojiarui.github.io>

## Research interests

Approximate algorithms in data streams, Computer network systems

## Education

### Peking University

Beijing, China

B.Sc. in Computer Science (double in Mathematics)

2019 – Present

### Nantong Middle School

Nantong, Jiangsu, China

2016 – 2019

## Publications

### Finding Simplex Items in Data Streams

Zhuochen Fan, **Jiarui Guo**, Xiaodong Li, Tong Yang, Yikai Zhao, Yuhan Wu, Bin Cui, Steve Uhlig, Gong Zhang

*2023 IEEE 39th International Conference on Data Engineering (ICDE'23). Apr. 2023*

### REncoder: A Space-Time Efficient Range Filter with Local Encoder

Ziwei Wang, Zheng Zhong, **Jiarui Guo**, Yuhan Wu, Haoyu Li, Tong Yang, Yaofeng Tu, Huanchen Zhang, Bin Cui

*2023 IEEE 39th International Conference on Data Engineering (ICDE'23). Apr. 2023*

### BurstSketch: Finding Bursts in Data Streams

Ruijie Miao, Zheng Zhong, **Jiarui Guo**, Zikun Li, Tong Yang, Bin Cui

*IEEE Transactions on Knowledge and Data Engineering (TKDE). Nov. 2022*

### PISketch: Finding Persistent and Infrequent Flows

Zhuochen Fan, Zhoujing Hu, Yuhan Wu, **Jiarui Guo**, Wenrui Liu, Tong Yang, Hengrui Wang, Yifei Xu, Steve Uhlig, Yaofeng Tu

*Proceedings of the ACM SIGCOMM Workshop on Formal Foundations and Security of Programmable Network Infrastructures (FFSPIN'22). Aug. 2022*