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**Research interests**     Approximate algorithms in data streams, Computer network systems

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**Publications**     **SteadySketch: Finding Steady Flows in Data Streams**  
Xiaodong Li, Zhuochen Fan, Haoyu Li, Zheng Zhong, **Jiarui Guo**, Sheng Long, Tong Yang, Bin Cui  
*2023 IEEE/ACM 31st International Symposium on Quality of Service (IWQoS'23)*. Jun. 2023

**PISketch: Finding Persistent and Infrequent Flows**  
Zhuochen Fan, Zhoujing Hu, Yuhan Wu, **Jiarui Guo**, Sha Wang, Wenrui Liu, Tong Yang, Yaofeng Tu, Steve Uhlig  
*IEEE/ACM Transactions on Networking (ToN)*. May. 2023

**Finding Simplex Items in Data Streams**  
Zhuochen Fan, **Jiarui Guo**, Xiaodong Li, Tong Yang, Yikai Zhao, Yuhan Wu, Bin Cui, Yanwei Xu, 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  
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