

Yinda Zhang

Computer Science, University of Chicago, Chicago, USA
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EDUCATION

University of Chicago

Chicago, USA

- M.S. in Computer Science
- Advisor: [Junchen Jiang](#)

Sep. 2020 – Present

Peking University

Beijing, China

- B.S. in Computer Science and Technology

Sep. 2016 – Jun. 2020

PUBLICATIONS

- **Yinda Zhang**, Zaoxing Liu, Ruixin Wang, Tong Yang, Jizhou Li, Ruijie Miao, Peng Liu, Ruwen Zhang, Junchen Jiang. *CocoSketch: High-Performance Sketch-based Measurement over Arbitrary Partial Key Query*. SIGCOMM 2021
- **Yinda Zhang**, Jinyang Li, Yutian Lei, Tong Yang, Zhetao Li, Gong Zhang, Bin Cui. *On-Off Sketch: A Fast and Accurate Sketch on Persistence*. VLDB 2021
- Xiangyang Gou*, Long He*, **Yinda Zhang***, Ke Wang, Xilai Liu, Tong Yang, Yi Wang, Bin Cui. *Sliding Sketches: A Framework using Time Zones for Data Stream Processing in Sliding Windows*. KDD 2020

RESEARCH EXPERIENCE

Pre-Doctoral MS in Computer Science

University of Chicago

Advisor: Junchen Jiang

Jul. 2020 – Present

- Goal: Apply sketching algorithms to the network measurement system.
- Adopted the algorithm on subset sum estimation to address arbitrary partial key query; Paper accepted by SIGCOMM 2021
- Applied prior advanced theory to multicore software switches.

Institute of Network Computing and Information Systems

Peking University

Advisor: Tong Yang

May. 2018 – Jun. 2020

- Goal: Design sketching algorithms for fast and accurate data stream processing
- Proposed an algorithm for finding heavy distinct hitters; Paper submitted to VLDB 2021.
- Constructed a sketch-based data structure for persistence estimation and finding persistent items; Paper accepted by VLDB 2021.
- Developed an original framework that answers various types of queries in sliding windows; Paper accepted by KDD 2020.

INTERNSHIP EXPERIENCE

Conviva

Beijing, China

Research Intern

Jul. 2020 – Jan. 2021

- Extracted the viewership over time based on the raw logs of events in databases.
- Analyzed the interplay between video content, video quality, and user experience based on the measurements from millions of video sessions and various content providers.