## YONGGANG JIANG

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## **EDUCATION**

Max Planck Institute for Informatics and Saarland University

Apr. 2023 - Present

PhD in Computer Science

Advisor: Danupon Nanongkai

Max Planck Institute for Informatics and Saarland University

Oct. 2021 - Mar. 2023

Preparatory Phase for Doctoral Study

Nanjing University

Sep. 2017 - Jul. 2021

B.S. in Computer Science and Technology

GPA: 94.4/100, Ranking: 1/31

University of California, Berkeley

Jan. 2020 - May 2020

Berkeley International Study Program

GPA: 4.0/4.0

## **PUBLICATIONS**

\*Co-authors are listed in alphabetical order.

[1] Parallel  $(1+\epsilon)$ -Approximate Multi-Commodity Mincost Flow in Almost Optimal Depth and Work

Bernhard Haeupler, Yonggang Jiang, Yaowei Long, Thatchaphol Saranurak, Shengzhe Wang.

In submission.

[2] Reviving Thorup's Shortcut Conjecture

Aaron Bernstein, Maximilian Probst Gutenberg, Bernhard Haeupler, Gary Hoppenworth, Yonggang Jiang, Seth Pettie, Thatchaphol Saranurak, Leon Schiller. *In submission*.

In submission.

[4] Shortcuts and Transitive-Closure Spanners Approximation

Parinya Chalermsook, Yonggang Jiang, Sagnik Mukhopadhyay, Danupon Nanongkai. *In submission*.

[5] New Oracles and Labeling Schemes for Vertex Cut Queries

Yonggang Jiang, Merav Parter, Asaf Petruschka.

In submission.

[6] Perfect Simulation of Las Vegas Algorithms via Local Computation

Xinyu Fu, Yonggang Jiang, Yitong Yin.

In submission.

[7] Parallel Minimum Cost Flow in Near-Linear Work and Square Root Depth for Dense

Instances

Jan van den Brand, Hossein Gholizadeh, Yonggang Jiang, Tijn de Vos.

ACM Symposium on Parallelism in Algorithms and Architectures (SPAA) 2022.

[8] Deterministic Vertex Connectivity via Common-Neighborhood Clustering and Pseudorandomness

Chaitanya Nalam, Yonggang Jiang, Thatchaphol Saranurak, Sorrachai Yingchareonthawornchai.

ACM Symposium on Theory of Computing (STOC) 2025.

[9] Global vs. s-t Vertex Connectivity Beyond Sequential: Almost-Perfect Reductions & Near-Optimal Separations

Joakim Blikstad, Yonggang Jiang, Sagnik Mukhopadhyay, Sorrachai Yingchareon-thawornchai.

ACM Symposium on Theory of Computing (STOC) 2025.

[10] Parallel and Distributed Exact Single-Source Shortest Paths with Negative Edge Weights

Vikrant Ashvinkumar, Aaron Bernstein, Nairen Cao, Christoph Grunau, Bernhard Haeupler, Yonggang Jiang, Danupon Nanongkai, Hsin Hao Su. European Symposium on Algorithms (ESA) 2024.

[11] Finding a Small Vertex Cut on Distributed Networks
Yonggang Jiang, Sagnik Mukhopadhyay.

ACM Symposium on Theory of Computing (STOC) 2023.

[12] Robust and Optimal Contention Resolution without Collision Detection
Yonggang Jiang, Chaodong Zheng.

ACM Symposium on Parallelism in Algorithms and Architectures (SPAA) 2022.

[13] Tight Trade-off in Contention Resolution without Collision Detection
Haimin Chen, Yonggang Jiang, Chaodong Zheng.

ACM Symposium on Principles of Distributed Computing (PODC) 2021.

## HONORS & AWARDS

Outstanding Graduate, Nanjing University	2021
National Elite Program Scholarship, Outstanding Prize (top 1)	2018, 2019, 2020
China Collegiate Programming Contest (CCPC), Gold Medal	2018
National Olympiad in Informatics in Provinces (NOIP), First Prize	2015