Jiaheng Wang

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Education

· Ph.D. student University of Edinburgh, 2020 -?

Advisor: Heng Guo

• B.Sc. summa cum laude in Computer Science (Turing Class) Peking University, 2016 - 2020

Visiting

• Institute for Theoretical Computer Science, Shanghai University of Finance and Economics

2020/05 - 2020/09

Advisor: Pinyan Lu

• Laboratory for Foundations of Computer Science, University of Edinburgh 2019/07 - 2019/08

Advisor: Heng Guo

• Institute of Computing Technology, Chinese Academy of Sciences 2018/09 - 2020/01

Advisor: Xiaoming Sun

Honours and Awards

• Informatics Global PhD Scholarship (3.5 years) University of Edinburgh, 2020

• Turing Class Scholarship Peking University, 2019

• May 4th Scholarship Peking University, 2018 • Merit Student Award Peking University, 2018

· Award for Academic Excellents Peking University, 2017

Research Interests

- Randomized algorithms, including sampling and counting.
- · Extremal combinatorics.
- Boolean function complexity.

Research Articles

[3] Improved Bounds for Randomly Colouring Simple Hypergraphs.

with Weiming Feng and Heng Guo.

submitted

arXiv: 2202.05554

[2] Inapproximability of Counting Hypergraph Colourings.

with Andreas Galanis and Heng Guo.

submitted

arXiv: 2107.05486

[1] On the Degree of Boolean Functions as Polynomials over \mathbb{Z}_m .

with Xiaoming Sun, Yuan Sun, Kewen Wu, Zhiyu Xia and Yufan Zheng.

47th International Colloquium on Automata, Languages and Programming (ICALP 2020).

arXiv: 1910.12458

Teaching

- At University of Edinburgh:
 - INFR08026 Introduction to Algorithms and Data Structures

Teaching Assistant, 2021/22

• At Peking University:

- 04834010 Randomized Algorithms

- 04833440 Introduction to the Theory of Computation

- 04833040/04832363 Introduction to Computer Systems

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Teaching Assistant, 2020 Spring Teaching Assistant, 2020 Spring Teaching Assistant/Tutor, 2019 Fall Teaching Assistant, 2019 Spring Teaching Assistant/Tutor, 2018 Fall

Services and Activities

• Conference reviewer: ICALP'21, SODA'21

• Student organizer of SAGT'18 (organizing volunteers, getting involved in press, etc.)

Talks

• On the Degree of Boolean Functions as Polynomials over \mathbb{Z}_m .

- ICALP 2020, Saarbrücken, Germany (Virtual Conference)