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 4^{th} 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

[1] **Inapproximability of Counting Hypergraph Colourings.**
with Andreas Galanis and Heng Guo.
submitted
arXiv: 2107.05486

[2] **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 Peking University:
  - 04834010 Randomized Algorithms — Teaching Assistant, 2020 Spring
  - 04833440 Introduction to the Theory of Computation — Teaching Assistant, 2020 Spring

- 04833040/04832363 Introduction to Computer Systems — Teaching Assistant/Tutor, 2019 Fall
- 04833440 Introduction to the Theory of Computation — Teaching Assistant, 2019 Spring
- 04833040/04832363 Introduction to Computer Systems — 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, Saarbrcken, Germany (Virtual Conference)