

Hanlin Ren

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🌐 <https://hanlin-ren.github.io/>

📅 Last updated: Dec 2020

Education

August 2016 – Present

📍 **Tsinghua University, China**

Bachelor of Engineering

Major: Computer Science (Special Pilot CS Class, a.k.a Yao Class)

GPA: 3.83/4; rank: 8/38

Research Interests

I am interested in **Algorithm Design** and **Computational Complexity**.

Publications





(Note: in Theoretical Computer Science, the list of authors are usually sorted in alphabetical order.)

- 📖 Ran Duan, Yong Gu, and **Hanlin Ren**. Approximate Distance Oracles Subject to Multiple Vertex Failures. In *Proceedings of the 32nd ACM-SIAM Symposium on Discrete Algorithms (SODA)*, 2021.
- 📖 **Hanlin Ren**. Improved Distance Sensitivity Oracles with Subcubic Preprocessing Time. In *Proceedings of the 28th Annual European Symposium on Algorithms (ESA)*, 2020.
Invited to the JCSS special issue for ESA 2020
- 📖 Lijie Chen and **Hanlin Ren**. Strong Average-Case Circuit Lower Bounds from Non-trivial Derandomization. In *Proceedings of the 52nd Annual ACM Symposium on Theory of Computing (STOC)*, 2020.
Invited to the SICOMP special issue for STOC 2020
- 📖 Ran Duan and **Hanlin Ren**. Approximating All-Pair Bounded-Leg Shortest Path and APSP-AF in Truly-Subcubic Time. In *Proceedings of the 45th International Colloquium on Automata, Languages, and Programming (ICALP)*, 2018.

Academic Talks

- Dec 2020 📖 Approximate Distance Oracles Subject to Multiple Vertex Failures. Yaoclass Seminar.
- Sep 2020 📖 Improved Distance Sensitivity Oracles with Subcubic Preprocessing Time. ESA 2020 (virtual talk). <https://youtu.be/2Z46AybFkJ8>.
- Jun 2020 📖 Strong Average-Case Circuit Lower Bounds from Non-trivial Derandomization. STOC 2020 (virtual talk). <https://youtu.be/xWDQ4Lef0Vs>.
- Mar 2020 📖 Strong Average-Case Circuit Lower Bounds from Non-trivial Derandomization. Special Interest Group on Mathematics & Algorithms, Institute of Computing Technology, Chinese Academy of Science (virtual talk).
- Jul 2018 📖 Approximating All-Pair Bounded-Leg Shortest Path and APSP-AF in Truly-Subcubic Time. ICALP 2018, Prague, Czech Republic.

Selected Awards

- Sep 2019  Yao Award, bronze prize
- Sep 2018  Evergrande Scholarship
- Sep 2017  Baidu "Future Star" Scholarship
- Jul 2015  Gold medal (15th place) in Chinese National Olympiad in Informatics (NOI)

Languages

- Chinese  native
- English  TOEFL 110 (Reading 30 + Listening 29 + Speaking 23 + Writing 28, May 2019)

Misc

-  GRE score (May 2019): Verbal 161, Quantitative 170, AW 4.0