Hanlin Ren

✉ h4n1in.r3n@gmail.com ✉ rhl16@mails.tsinghua.edu.cn 📞 (+86) 18801156172

🌐 https://hanlin-ren.github.io/ 🔼 Last updated: Nov 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.

🔖 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

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

Selected Awards (continued)

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