Xuandi Ren

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Education

2022–2027 (Expected)	**University of California at Berkeley**, *Berkeley, U.S.* Ph.D., Computer Science
2018–2022	**Peking University**, *Beijing, China* B.S., Computer Science Turing Class *(an elite class founded by Prof. John E. Hopcroft; 60 students selected)* ○ Overall GPA: 3.90/4.00 (rank: 1st/230)

Selected Awards & Honors

2019, 2020	**National Scholarship** (Top 2% in School), Peking University
2019, 2020	**Merit Student** (Top 5% in School), Peking University
2019	13th place, **43rd International Collegiate Programming Contest World Finals** (with Zhe Feng and Jianing Ye)
2018, 2019	4 Gold medals, **International Collegiate Programming Contest Regional Contests**
2018	**Mingde Scholarship** (the First Prize of Freshman Scholarship), Peking University
2018	Gold medal, **30th International Olympiad in Informatics**
2017	Gold medal, 3rd place, **11th Asia and Pacific Informatics Olympiad**
2017	Gold medal, 2nd place, **34th National Olympiad in Informatics**

Publications

- Venkatesan Guruswami, Bingkai Lin, Xuandi Ren, Yican Sun and Kewen Wu. **Almost Optimal Time Lower Bound for Approximating Parameterized Clique, CSP, and More, under ETH.** Proceedings of the 57th Annual ACM Symposium on Theory of Computing (STOC), 2025.

- Venkatesan Guruswami, Xuandi Ren and Sai Sandeep. **Baby PIH: Parameterized Inapproximability of Min CSP.** 39th Computational Complexity Conference (CCC), 2024.

- Venkatesan Guruswami, Bingkai Lin, Xuandi Ren, Yican Sun and Kewen Wu. **Parameterized Inapproximability Hypothesis under ETH.** Proceedings of the 56th Annual ACM Symposium on Theory of Computing (STOC), 2024, **(Best Paper Award).**

- Bingkai Lin, Xuandi Ren, Yican Sun and Xiuhan Wang. **Improved Hardness of Approximating k-Clique under ETH.** Proceedings of the 64th IEEE Annual Symposium on Foundations of Computer Science (FOCS), 2023.

- Bingkai Lin, Xuandi Ren, Yican Sun and Xiuhan Wang. **Constant Approximating Parameterized k-SetCover is W[2]-hard.** Proceedings of the 2023 ACM-SIAM Symposium on Discrete Algorithms (SODA), 2023.

- Bingkai Lin, Xuandi Ren, Yican Sun and Xiuhan Wang. **On Lower Bounds of Approximating Parameterized k-Clique.** Proceedings of the 49th EATCS International Colloquium on Automata, Languages and Programming (ICALP), 2022.

- Xuandi Ren. **A Survey on Parameterized Inapproximability:** k-**Clique,** k-**SetCover, and More.** Manuscript (Not Intended to Publish).
- Pinyan Lu, Xuandi Ren, Enze Sun and Yubo Zhang. **Generalized Sorting with Predictions.** In 4th Symposium on Simplicity in Algorithms (SOSA), 2021

Teaching Experiences

Fall 2024 **Efficient Algorithms and Intractable Problems**
Teaching Assistant, University of California at Berkeley
(Instructor: Prasad Raghavendra and Sanjam Garg)

Spring 2022 **Randomized Algorithms**
Teaching Assistant, Peking University (Instructor: Yuqing Kong)

Spring 2022 **Practice of Programming in C&C++**
Teaching Assistant, Peking University (Instructor: Qinjian Zhang)

Spring 2021 **Randomized Algorithms**
Teaching Assistant, Peking University (Instructor: Yuqing Kong)

Fall 2020 **Mathematical Foundations for the Information Age**
Teaching Assistant, Peking University (Instructor: Yuqing Kong)

Summer 2019 **Applied Algorithms**
Teaching Assistant, Peking University (Instructor: Tami Tamir)

Service

2020 Chair, **3rd Student Research Seminar of Turing Class and CFCS**

Language

- **Chinese** (native)
- **English** (fluent)
  - TOEFL iBT: 109 (R30 + L28 + S23 + W28)
  - GRE: 322 (V152 + Q170) + 4.0