

Tatsuya Terao

DOCTORAL STUDENT

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Research Interests

- Theoretical Computer Science.

Education

Kyoto University

DOCTOR OF SCIENCE

- Advisor: Prof. Yusuke Kobayashi

Kyoto, Japan

April 1, 2024 - present

Kyoto University

MASTER OF SCIENCE

- Advisor: Prof. Yusuke Kobayashi

Kyoto, Japan

April 1, 2022 - March 31, 2024

Kyoto University

BACHELOR OF SCIENCE

- Faculty of Science, Division of Physics

Kyoto, Japan

April 1, 2018 - March 31, 2022

Professional Experience

2024-2027 Research Fellowships for Young Scientists (DC1), Japan Society for the Promotion of Science

Publications

Authors are listed alphabetically. Exceptions are marked with †.

1. Tatsuya Terao and Ryuhei Mori: Parameterized Quantum Query Algorithms for Graph Problems †,
In Proceedings of the 32nd Annual European Symposium on Algorithms (ESA 2024), 99:1-99:16.
doi:10.4230/LIPIcs.ESA.2024.99
2. Yusuke Kobayashi and Tatsuya Terao: Subquadratic Submodular Maximization with a General Matroid Constraint,
In Proceedings of the 51st EATCS International Colloquium on Automata, Languages and Programming (ICALP 2024), 100:1-100:19.
doi:10.4230/LIPIcs.ICALP.2024.100
3. Tatsuya Terao: Faster Matroid Partition Algorithms,
In ACM Transactions on Algorithms (TALG), Volume 21, Issue 2, 2025.
doi:10.1145/3707208
Preliminary version appeared in proceedings of the 50th EATCS International Colloquium on Automata, Languages and Programming (ICALP 2023), 104:1-104:20.
doi:10.4230/LIPIcs.ICALP.2023.104
4. Yusuke Kobayashi and Tatsuya Terao: One-Face Shortest Disjoint Paths with a Deviation Terminal,
In Proceedings of the 33rd International Symposium on Algorithms and Computation (ISAAC 2022), 47:1-47:15.
doi:10.4230/LIPIcs.ISAAC.2022.47

Presentations

- Parameterized Quantum Query Algorithms for Graph Problems.
 - ESA 2024, Egham, United Kingdom, Sep 4, 2024.
- Subquadratic Submodular Maximization with a General Matroid Constraint.
 - ICALP 2024, Tallinn, Estonia, July 9, 2024.

- Faster Matroid Partition Algorithms.
 - ICALP 2023, Paderborn, Germany, July 14, 2023.
- One-Face Shortest Disjoint Paths with a Deviation Terminal.
 - ISAAC 2022, Seoul, Korea, Dec 20, 2022.