Tatsuya Terao

DOCTORAL STUDENT

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Research Interests	
Theoretical Computer Science.	
Education	
Kyoto University	Kyoto, Japan
• Faculty of Science, Division of Physics	April 1, 2018 - March 31, 2022
Kyoto University	Kyoto, Japan
MASTER OF SCIENCE • Advisor: Prof. Yusuke Kobayashi	April 1, 2022 - March 31, 2024
Kyoto University	Kyoto, Japan
• Advisor: Prof. Yusuke Kobayashi	April 1, 2024 - present
Professional Experience	
2024-2027 Research Fellowships for Young Scientists (DC1), Japan Soci	iety for the Promotion of Science
Publications	
Authors are listed alphabetically. Exceptions are marked with †.	
 Yusuke Kobayashi and Tatsuya Terao: One-Face Shortest Disjoint Paths with a D In Proceedings of the 33rd International Symposium on Algorithms and Compu doi:10.4230/LIPIcs.ISAAC.2022.47 	
 Tatsuya Terao: Faster Matroid Partition Algorithms, In ACM Transactions on Algorithms (TALG), Volume 21, Issue 2, 2025. doi:10.1145/3707208 	
A preliminary version appeared in Proceedings of the 50th EATCS Internationa (ICALP 2023), 104:1–104:20. doi:10.4230/LIPIcs.ICALP.2023.104	al Colloquium on Automata, Languages and Programming
3. Yusuke Kobayashi and Tatsuya Terao: Subquadratic Submodular Maximization in Proceedings of the 51st EATCS International Colloquium on Automata, Languadoi:10.4230/LIPIcs.ICALP.2024.100	

Presentations __

• One-Face Shortest Disjoint Paths with a Deviation Terminal.

4. 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.

To appear in Proceedings of the 19th Algorithms and Data Structures Symposium (WADS 2025)

- ISAAC 2022, Seoul, Korea, Dec 20, 2022.

doi:10.4230/LIPIcs.ESA.2024.99

5. Tatsuya Terao: Deterministic $(2/3-\varepsilon)$ -Approximation of Matroid Intersection Using Nearly-Linear Independence-Oracle Queries,

- Faster Matroid Partition Algorithms.
 - ICALP 2023, Paderborn, Germany, July 14, 2023.
 - 13th Hungarian-Japanese Symposium on Discrete Mathematics and Its Applications, Tokyo, Japan, May 26, 2025.
- Subquadratic Submodular Maximization with a General Matroid Constraint.
 - ICALP 2024, Tallinn, Estonia, July 9, 2024.
- Parameterized Quantum Query Algorithms for Graph Problems.
 - ESA 2024, Egham, United Kingdom, Sep 4, 2024.
- Deterministic $(2/3-\varepsilon)$ -Approximation of Matroid Intersection Using Nearly-Linear Independence-Oracle Queries
 - WADS 2025, Toronto, Canada, Aug, 2025.