

# Yutaro Mikami

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## EDUCATION

- Doctor course, Mathematical Science, The University of Tokyo, April 2023-present (expected to graduate in March 2026)  
Supervisor: Yoichi Mieda
- Master, Mathematical Science, The University of Tokyo, April 2021-March 2023
- Bachelor, Science, The University of Tokyo, April 2017-March 2021

## Grants/Fellowship

- JSPS Research Fellow (DC1), Japan Society for the Promotion of Science, April 2023-March 2026

## Awards

- Dean's Award (Master Course, valedictorian), Graduate school of Mathematical Science, The university of Tokyo, March 2023

## Papers

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1. "Faithfully flat descent of quasi-coherent complexes on rigid analytic varieties via condensed mathematics." *Int. Math. Res. Not. IMRN* 2024, no. 8, 7099–7128.
2. "Fppf-descent for condensed animated rings." *arXiv preprint arXiv:2311.13408* (2023)
3. " $(\varphi, \Gamma)$ -modules over relatively discrete algebras." *arXiv preprint arXiv:2409.14145* (2024)

## Talks in Seminars/Workshops/Conferences

1. 21st Sendai-Hiroshima Workshop on Number theory, Tohoku University, July 14, 2022
2. Number Theory Seminar, Kyoto University, July 29, 2022
3. \*Kurashiki Number Theory Meeting, Kurashiki Seaside Hotel, September 6-7, 2022 (survey)
4. \*Kurashiki Number Theory Meeting, Kurashiki Seaside Hotel, February 6-10, 2023 (survey)
5. Number Theory Seminar, The University of Tokyo, May 24, 2022
6. \*Kurashiki Number Theory Meeting, Kurashiki Seaside Hotel, September 11-18, 2023 (survey)
7. UTokyo-NTU joint conference: Number theory and arithmetic geometry, National Taiwan University, December 7-8, 2023
8. \*Kanazawa Arithmetic Geometry Meeting, Ishikawa Prefectural bunkyo hall, March 25-29, 2024 (survey)
9. 23rd Sendai-Hiroshima Workshop on Number theory, Tohoku University, July 11, 2024

10. Workshop on Shimura varieties, representation theory and related topics, The University of Tokyo, October 10, 2024

### **Teaching**

1. Winter 2023, Teaching assistant, “Linear Algebra”, The University of Tokyo.
2. Winter 2024, Teaching assistant, “Linear Algebra”, The University of Tokyo.