

# Kazuma Ohara | Curriculum Vitae

Graduate School of Mathematical Science, The University of Tokyo,  
3-8-1 Komaba, Meguroku, Tokyo 153-8914, Japan  
✉ kohara@ms.u-tokyo.ac.jp

## Education

---

- Master, Mathematical Science, The University of Tokyo, April 2020–March 2022  
Supervisor: Noriyuki Abe
- Bachelor, Science, The University of Tokyo, April 2016–March 2020

## Research Interests

---

- Representation theory of Hecke algebras and reductive groups over local fields
- Langlands correspondence and Langlands functoriality

## Grants/Fellowships

---

- JSPS Research Fellow (DC1), Japan Society for the Promotion of Science (Grant Number: 22J22712), April 2022–March 2025
- FMSP course student, The Leading Graduate Course for Frontiers of Mathematical Science and Physics, September 2020–March 2025

## Award

---

- Dean's Award(Master's course), Graduate School of Mathematics, the University of Tokyo, March 2022.

## Papers

---

### Published or Accepted:

1. *On the formal degree conjecture for non-singular supercuspidal representations*, International Mathematics Research Notices, rnac154.
2. *Hecke algebras for tame supercuspidal types*, arXiv e-prints (2021), to appear in American Journal of Mathematics, arXiv:2101.01873.

### Preprints:

1. *A comparison of endomorphism algebras*, arXiv e-prints (2023), arXiv:2301.09182.

## Talks in Seminars/Workshops/Conferences

---

- Johns Hopkins Number Theory Seminar, February 08, 2023
- 9th Kyoto conference on automorphic forms, Kyoto University, June 24-26, 2022
- Algebraic Lie Theory and Representation Theory, online, May 23-27, 2022
- Automorphic form, automorphic  $L$ -functions and related topics, RIMS, January 24-28, 2022
- Colloquium of Algebra, the University of Tokyo, November 24, 2021
- Symposium on Representation Theory 2021, online, November 18-21, 2021