

Hiroto Sasaki

Curriculum Vitae

St. Louis, MO

United States

✉ h.sasaki@wustl.edu

🌐 www.hirotosasaki.com

Education

- 2024–current **Candidate of Ph.D. in Mathematics**, *Department of Mathematics, Washington University in St. Louis*, United States
Advisor: Prof. Xiang Tang and Prof. Yanli Song
- 2020–2024 **Bachelor of Mathematics**, *Department of Mathematics, University of Tokyo*, Japan

Interests

- K- and KK-theory for C^* -algebras
- Index theory
- Noncommutative geometry
- Applications to mathematical physics
- Cyclic cohomology
- Foliations

Awards and Honors

- Jul. 2019 **50th International Physics Olympiad, Silver Medal**, Israel

Scholarships and Fellowships

- 2023–current **Overseas Predoctoral Fellow, Toyota Physical and Chemical Research Institute**
Scholarship for Ph.D. program abroad from Fall 2024 for 2 years
- Sep. 2023 **Research Visit at the Fields Institute**, supported by the 2023 Study and Visit Abroad Program, University of Tokyo
Host Professor: Prof. Eckhard Meinrenken and Prof. Nigel Higson

Teaching Experience

- Spring 2026 **Grader**, *Measure Theory and Functional Analysis II*, Washington University in St. Louis
- Spring 2026 **Grader**, *Introduction to Lebesgue Integration*, Washington University in St. Louis
- Fall 2025 **Grader**, *Topology I*, Washington University in St. Louis
- Fall 2025 **Grader**, *Measure Theory and Functional Analysis I*, Washington University in St. Louis
- Spring 2024 **Teaching Assistant**, *Lectures on Academic Frontiers*, University of Tokyo
- Fall 2023 **Teaching Assistant**, *Exercises for Calculus*, University of Tokyo

Spring 2023 **Teaching Assistant**, *Exercises for Foundations of Mathematics*, University of Tokyo

Fall 2022 **Teaching Assistant**, *Exercises for Linear Algebra*, University of Tokyo

Fall 2022 **Teaching Assistant**, *Exercises for Calculus*, University of Tokyo

Languages

Japanese Native

English Proficient

French Intermediate