Hanzhang Yun

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Research interests

Noncommutative geometry, operator theory, spectral theory

Education

2024 – Present **Washington University in St. Louis** – St. Louis, US
PhD in Mathematics
Advisors: Prof. Xiang Tang, Prof. Yanli Song.

2022 – 2024 **University of Science and Technology of China** – Hefei, China
MA in Mathematics
Advisor: Prof. Zuoqin Wang
Thesis: The Dirichlet-to-Neumann Operator and Noncommutative Residue.

2018 – 2022 **University of Science and Technology of China** – Hefei, China
BS in Mathematics.

Publications

2025 Steklov Spectral Invariants via Guillemin-Wodzicki Residue and Applications in Inverse Spectral Problem (in preparation)
Zuoqin Wang, Hanzhang Yun.

Talks

May 2025 Steklov Spectral Invariants via Guillemin-Wodzicki Residue and Applications in Inverse Spectral Problem
Spectral Geometry Seminar Series at University of Science and Technology of China

Seminar organization

Fall 2025 **Szegő Seminar** (co-organizer)
A long-term and graduate-student-oriented seminar at Washington University in St. Louis

Teaching experience

Fall 2025	Grading MATH 3180: **Introduction to Calculus of Several Variables** Washington University in St. Louis
Fall 2025	Grading MATH 5221: **Geometry/Topology I - Algebraic Topology** Washington University in St. Louis
Fall 2025	Grading MATH 5223: **Geometry/Topology III - Differential Geometry** Washington University in St. Louis
Summer 2023	Teaching Assistant, **Analysis and Topology I** Yau Tsinghua Mathcamp
Fall 2022	Teaching Assistant, **Fundamentals of Geometry** University of Science and Technology of China
Spring 2022	Teaching Assistant, **Topology (Honor)** University of Science and Technology of China

Honors and scholarships

2019	**USTC Outstanding Student Scholarship** University of Science and Technology of China

Languages

Chinese(Native), English(Proficient).