

Ray Shang

Curriculum Vitae

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📄 <https://ray-shang.github.io/ray-shang/>

Education

2024-Present **MA, Mathematics**, *University of Bonn*, Bonn, Germany.

2020-2024 **BA, Mathematics**, *Harvard College*, Cambridge, MA.

Research Experience

Harvard College

February ***Semistability and Interpolation for Veronese normal bundles.***

2023 - Proved slope semistability for all Veronese normal bundles. Proved interpolation for degree 2 Veroneses of
present odd dimension. Two papers forthcoming.

Advisors: **Joe Harris**, *Professor, Department of Mathematics*, Harvard College, **Anand Patel**, *Associate Professor, Department of Mathematics*, Oklahoma State University

University of Chicago

May 2022 - ***UChicago Research Experience for Undergraduates.***

December Attended UChicago's highly-competitive research experience for undergraduates program, funded by the
2022 National Science Foundation. Researched the relation between complex orientation to Chern classes and chromatic homotopy theory, culminating in an expository article.

Advisor: **Peter May**, *Professor, Department of Mathematics*, University of Chicago

Fellowships & Awards

2024 Recipient of DAAD ***Research Grant - One Year Grants for Doctoral Candidates.*** Funding from Germany's premier support organization for those with "excellent qualifications and are already taking a doctoral degree... or in exceptional cases a bachelor's degree." Earned Harvard University's nomination.

2023 Recipient of Harvard ***PRISE Fellowship.*** Highly competitive summer research fellowship; sole mathematics project to be selected.

Teaching Assistantship

Spring, 2022 : **Math 131: Introduction to Topology.**

Fall, 2022 : **Math 231: Graduate Algebraic Topology.**

Spring, 2023 : **Math 113: Introduction to Complex Analysis.**

Fall, 2023 : **Math 112: Introduction to Real Analysis.**

Spring, 2024 : **Math 121: Linear Algebra and Applications.**

Extracurriculars / Outreach

2020-2022 **Harvard-MIT Math Tournament**, The premier high school mathematics tournament in the United States, board member of logistics team, helped to coordinate all logistical aspects of the tournament, emcee for educational speaker event.

2020 **Ross Mathematics Program Junior Counselor**, Guided first-years through Number Theory proofs, provided feedback on work, taught seminars on Real Analysis and Abstract Algebra.

2018-2020 **Junior High Mathematics Tournament Director**, Director for junior high mathematics tournament, 700+ students and 20+ schools.