

Curriculum Vitae¹

Yumin Shen²

Education

B.S. in Mathematics, *summa cum laude*, The Ohio State University, 2022-2024
M.A. in Mathematics, University of Wisconsin–Madison, (Expected 2025)
Ph.D. in Mathematics, The Pennsylvania State University, (Expected 2030)

Awards and Honors

At The Ohio State University:

1st Place, 2024 Gordon Mathematics Competition
2nd Place, 2023 Gordon Mathematics Competition
2024 Grace Bareis Math Prize Scholarship
2023 Grace Bareis Math Prize Scholarship

Papers and Preprints

Anosov magnetic flows on surfaces, joint with James Marshall Reber, [arXiv: 2406.18735](#)

2024

Presentations³

“Universal Cover of Non-Positively Curved Surface”, The Ohio State University, 2024
“Some Algebraic Structures of Links: from 0 to ε ”, The Ohio State University, 2023
“Alternating knots and Tait Conjecture”, The Ohio State University, 2023
“Fundamental Theorem of Riemannian Geometry”, The Ohio State University, 2023
“The Invariant Subspace Problem”, The Ohio State University, 2023
“Measure, Integration and Dominated Convergence Theorem”, The Ohio State University, 2022

Workshops

Knots and Graphs, The Ohio State University, 2023

Employment

At University of Wisconsin-Madison:

Fall 2024: Grader for Math 322: Applied Mathematical Analysis (Partial Differential Equations and Special Functions)
Supervisor: Saverio Spagnolie

Other Skills

Programming languages: C, C++, Python, Matlab, Assembly for 89C51.
Natural languages: Mandarin Chinese, Shanghaiese, English, Japanese

¹Last Modified: April 5, 2025

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³Some slides archived in [homepage](#)