# $\underset{^{\textbf{Click for Update}^1}}{\operatorname{Curriculum}} \underset{^{\textbf{Vit}}{\operatorname{ae}}}{\operatorname{Vitae}}$

# Yumin Shen

Email: yumin.shen@wisc.edu Country of Citizenship: China City of birth: Shanghai, China  Education  University of Wisconsin-Madison Madison, WI, USA 2024 – Now Master of Arts in Mathematics. The Ohio State University Columbus, OH, USA 2022 – 2024 Bachelor of Science in Mathematics, Summa Cum Laude. Shanghai University Shanghai, China 2019 – 2022 Transferred out, majored in Telecommunication Engineering.  Awards, Competitions, Honors, and Scholarships  2024 Grace Bareis Math Prize Scholarship The Ohio State University 2024 Gordon Mathematics Competition 1state University Undergraduate Research Scholarship 51875 The Ohio State University Undergraduate Research Scholarship 51875 The Ohio State University 2023 Grace Bareis Math Prize Scholarship 5200 The Ohio State University 2023 Grace Bareis Math Prize Scholarship 2203 The Ohio State University 13th China Mathematics Competition 22nd Place The Ohio State University 13th Shanghai Mathematics Competition for College Students 1st Prize Chinese Math Society Dec 2021 2021 Shanghai University Mathematics Competition 2nd Prize Department of Mathematics, Shanghai University Department of Mathematics, Shanghai University Department of Mathematics Competition for College Students 2nd Prize Department of Mathematics Competition for College Students 2nd Prize Department of Mathematics Competition for College Students 2nd Prize Department of Mathematics Competition for College Students 2nd Prize Department of Mathematics Competition for College Students 3nd Prize Chinese Math Society Dec 2020 2020 Shanghai University Mathematics Competition 3nd Prize Shanghai Math Society Dec 2020 2020 Shanghai University Mathematics Competition 3nd Prize Shanghai Math Society Dec 2020 2020 Shanghai University Mathematics Competition 3nd Prize Department of Mathematics Competition for College Students 3nd Prize Shanghai Math Society 3nd Prize Shanghai University Mathematics Competition 3nd Prize Shanghai University Mathematics Competition 3nd Prize Shanghai University Mathematics Competition	Personal Information	
Education         University of Wisconsin-Madison Madison, WI, USA       2024 - Now Master of Arts in Mathematics.         The Ohio State University Columbus, OH, USA       2022 - 2024         Bachelor of Science in Mathematics, Summa Cum Laude.         Shanghai University Shanghai, China       2019 - 2022         Transferred out, majored in Telecommunication Engineering.         Awards, Competitions, Honors, and Scholarships         2024 Grace Bareis Math Prize Scholarship         The Ohio State University         Undergraduate Research Scholarship       \$1875         The Ohio State University         2023 Grace Bareis Math Prize Scholarship       \$200         The Ohio State University         2023 Gordon Mathematics Competition       2nd Place         The Ohio State University         2023 Gordon Mathematics Competition for College Students       1st Prize         Chinese Math Society       Dec 2021         13th Shanghai Mathematics Competition for College Students       1st Prize         Chinese Math Society       Dec 2021         2021 Shanghai University Mathematics Competition       2nd Prize         Department of Mathema	Email: yumin.shen@wisc.edu	
University of Wisconsin-Madison Madison, WI, USA   2024 - Now Master of Arts in Mathematics.   The Ohio State University Columbus, OH, USA   2022 - 2024   Bachelor of Science in Mathematics, Summa Cum Laude.   Shanghai University Shanghai, China   2019 - 2022   Transferred out, majored in Telecommunication Engineering.	Country of Citizenship: China	
University of Wisconsin—Madison Madison, WI, USA   2024 - Now Master of Arts in Mathematics.   2022 - 2024     Master of Arts in Mathematics   2022 - 2024     Bachelor of Science in Mathematics, Summa Cum Laude.     Shanghai University Shanghai, China   2019 - 2022     Transferred out, majored in Telecommunication Engineering.     Awards, Competitions, Honors, and Scholarships   3300     The Ohio State University   3300     The Ohio State University   1st Place   1th	City of birth: Shanghai, China	
Master of Arts in Mathematics.   The Ohio State University Columbus, OH, USA   2022 – 2024   Bachelor of Science in Mathematics, Summa Cum Laude.   Shanghai University Shanghai, China   2019 – 2022   Transferred out, majored in Telecommunication Engineering.	Education	
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	Shanghai University	Nov 2020

<sup>&</sup>lt;sup>1</sup>Update: July 8, 2024

### Other Experiences, Researches, and Workshops

### Anosov magnetic flows on surfaces

With James Marshall Reber

Using the quotient bundle introduced by Wojtkowski, we give necessary and sufficient conditions for a magnetic flow on a closed, oriented surface to be Anosov.

### **Knots and Graphs**

Link to Webpage

arXiv: 2406.18735

The Ohio State University

#### **Presentations and Posters**

# "Universal Cover of Non-Positively Curved Surface"

Directed Reading Program SP24

Gave a presentation on Cartan-Hadamard Theorem and Hadamard-Lévy's Theorem. Introduced enough background knowledge and emphasized on applications of covering space.

# "Some Algebraic Structures of Links: from 0 to $\varepsilon$ "

Knots and Graphs 2023

Gave a presentation introducing braid group and its representation in Temperley-Lieb algebra, and get Jones polynomial in an algebraic way. Enough background knowledge introduced.

### "Alternating knots and Tait Conjecture"

Knots and Graphs 2023

Gave a presentation on alternating knots and Tait conjecture as an application of Jones Polynomial.

# "Fundamental Theorem of Riemannian Geometry"

Cycle Conference 2023

Made a poster on smooth manifolds, tangent bundles, vector fields, Riemannian manifolds, affine connection, existence and uniqueness of the Levi-Civita connection, geodesics defined by Euler-Lagrange equation and geodesics defined by affine connection, and their local consistency under Levi-Civita connection.

#### "The Invariant Subspace Problem"

Directed Reading Program SP23

Gave a presentation on Banach space, bounded linear operator, compact operator, Banach algebra, spectrum of a bounded linear operator, spectral radius formula, eigenvalue of compact operator, and the Lomonosov invariant subspace theorem of compact operators.

#### "Measure, Integration and Dominated Convergence Theorem"

Directed Reading Program AU22

Gave a chalk talk on Lebesgue measure, integration, Dominated Convergence Theorem and some examples.

#### Other Skills

Chinese Native

**English** Proficient

Japanese Basic Proficiency

#### Programming languages

C,C++, Python, Matlab, Assembly Languages of AT89C51.