

# Runqing Zhuo

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## Education

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Nanjing University	2022–2026
B.S. in Mathematics	
Overall GPA: 4.6/5.0 Rank: 2/125	
University of Michigan	Fall 2025
Visiting Student in Mathematics	
Beijing International Center for Mathematical Research (BICMR)	Spring 2026
Student of Enhanced Program for Graduate Study (2026)	

## Research Interests

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Analysis, Harmonic Analysis, Partial Differential Equations, Dynamical Systems

## Research and Reading Experience

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Independent Reading Course	Fall 2025
<i>Advisor: Prof. Xiao Ma, University of Michigan</i>	
Topics including Elliptic PDE, Functional Analysis, recapping basic theory in Harmonic Analysis, Pseudo-differential Operators, Fourier Restriction Theory and Modern Harmonic Analysis.	
Independent Reading Course	Fall 2025
<i>Advisor: Prof. Tian Jing, University of Michigan</i>	
We are reading Journé, <i>Calderon-Zygmund Operators, Pseudo-Differential Operators and the Cauchy Integral of Calderon</i> , and have finished Chapter 0, 1, 2, 3. I presented two hours every week.	

## Relevant Coursework

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Click [here](#) for the full list of courses with detailed descriptions.

**Graduate-level Courses:** Analysis, Harmonic Analysis, Analysis (II), Manifolds and Geometry, Sino-Italian Mathematical Courses in Analysis (Course I: Geometric Hamiltonian Dynamics; Course II: Evolution Equations), Introduction to Partial Differential Equations.

**Upper-level Undergraduate Courses (selected):** Real Analysis, Functions of one Complex Variable, Selected Topics in Analysis, Functional Analysis, Differential Geometry, From calculus to cohomology.

## Honors and Awards

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RENMIN Scholarship, Nanjing University	2023, 2024, 2025
Nanjing University Undergraduate Scholarship for Fundamental Disciplines	2023, 2024, 2025
Silver Medal, Chinese Girls' Mathematical Olympiad (CGMO)	2021

## Talks and Presentations

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- “John–Nirenberg Inequality”, Student DE Seminar, Nanjing University, Spring 2025.
- “Separation Theorem of Convex Sets”, course presentation, *Analysis II*, Nanjing University, Spring 2025.
- “Galois Cohomology”, course presentation, *Galois Theory*, Nanjing University, Fall 2024.
- “Poincaré’s Inequality”, course presentation, *Selected Topics in Analysis*, Nanjing University, Spring 2024.
- “Radon Transform”, Nanjing University Undergraduate Forum, Fall 2023.

## Leadership and Academic Service

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Freshman Peer Mentor, Youxun College, Nanjing University	Fall 2024–Spring 2025
Peer Study Leader (Math Glue Program), Nanjing University	Fall 2023
Co-organizer, Undergraduate Analysis Seminar, Nanjing University	Fall 2022–Spring 2023

## Academic Programs, Conferences and Seminars

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<b>Summer School on Harmonic Analysis (auditor)</b> Nanjing University	Aug 2025
<b>International Science Summer School (Mathematics Track)</b> Westlake University	Jul 2024

### Seminars & Forums:

- Prof. Sijue Wu’s Students’ Seminar (auditor), University of Michigan Fall 2025
- Differential Equations Seminars (auditor), University of Michigan Fall 2025
- Recent Progress in Hamilton–Jacobi Equations (auditor), Nanjing University June 2025
- Young Scholars Forum on Harmonic Analysis (auditor), Nanjing University Oct 2024
- Fractal Geometry Seminar (participant, supervisor: Prof. Hua Qiu), Nanjing University Fall 2024
- Nanjing University Undergraduate Forum (participant) 2022–2025

## Skills

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**Languages:** Chinese (native), English (fluent).

**Technical:** L<sup>A</sup>T<sub>E</sub>X (proficient).