

Zilin Wang

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EDUCATION

Jinan University, Guangzhou, China

Sep. 2023 – Jul. 2027 (Expected)

B.Sc. in Mathematics

Total Average: 84/100

Main Courses: Abstract Algebra, Complex Analysis, Real Analysis(95), Functional Analysis, Numerical Analysis(89), Mathematics for Finance(96), Ordinary Differential Equations(89), Physics(90), Differential Geometry.

Research Interests: Dynamical Systems, Mathematical Physics, Representation Theory, and Visual Mathematics.

PUBLICATIONS AND MANUSCRIPTS

Z.Wang, Q.Liu, Z.Chen, and S.Fan., "Lipschitz-Regularized Path-Strength Refactoring for Differentiable Architecture Search," Under Review at Neurocomputing (Elsevier), 2026.

ADDITIONAL MATH EXPERIENCE

Undergraduate Training Program for Innovation and Entrepreneurship | Project Leader May. 2025 – Apr. 2026 (Expected)

- Decoupled the traditionally unstable bi-level optimization into a sequential single-level framework, effectively suppressing the "performance collapse".
- Introduced **Lipschitz constraints** to reformulate the neural search space, providing a rigorous connection between loss landscapes and path gradients through the principles of Real Analysis.
- Refactored architecture selection as a fitness evaluation task via **path-gradient integrals**, successfully bypassing the biased weight-sharing gradients that plague traditional differentiable search methods.
- Authored the paper *Lipschitz-Regularized Path-Strength Refactoring for Differentiable Architecture Search* (Lead Author).

WORK

Associate | Publicity and Media Center, School of Mathematics

2023-2024 Academic Year

- Designed official appointment letters; managed event photography and content creation for the WeChat official account.

Director | Publicity and Media Center, School of Mathematics

2024-2025 Academic Year

- Designed department orientation tote bags and coordinated administrative tasks as a student executive.

HONORS AND AWARDS

Outstanding Student Cadre Scholarship

2023–2024 Academic Year

Academic Excellence Scholarship (Third-class)

2024–2025 Academic Year

China Undergraduate Mathematical Contest in Modeling, Provincial Third Prize

Oct. 2024

Asia and Pacific Mathematical Contest in Modeling (APMCM), National Second Prize

Nov. 2024

The Chinese Mathematics Competitions (Mathematics Major Group), Provincial Third Prize

Nov. 2025