Ziyi Wang

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Research interests	Computational Mathematics

Education

Yangzhou University — Yangzhou, Jiangsu Province
B.Sc. in Information & Computing Science — Sep 2021 – Jun 2025
GPA 3.71   Rank: 2/46   CET-6: 485

University of Electronic Science and Technology of China — Chengdu, Sichuan Province
M.Sc. in Computational Mathematics — Sep 2025 – Present

Awards(selected)

Mathematics Contest in Modeling (COMAP)　　**Finalist (Top 1%)**　2024
The Chinese Mathematics Competitions (Chinese Mathematical Society)
　　Third Prize (Top 20%)　2024

Scholarships

Yangzhou University President First Class Scholarship　**(Top 5%)**　2024
Yangzhou University President First Class Scholarship　**(Top 5%)**　2023

Research experience

Least square DG for fully nonlinear PDEs on polygonal mesh

This project primarily builds on the work developed by Prof. Tan during his postdoctoral research in Prof. Brenner's group (Brenner–Sung–Tan–Zhang, *Numerische Mathematik*, 2021), which proposed and analyzed a **convexity-enforcing C^0 interior penalty** method for the Monge–Ampère equation. We aim to extend this framework to a **DG (Discontinuous Galerkin) method on polygonal elements**. The core algorithm and code implementation have been completed, and we are currently carrying out rigorous theoretical analysis (e.g., stability and error estimates). We expect to post a preprint on arXiv within the next few months.

Advisors: Prof Zhiyu Tan & Kaifang Liu　　　　　　　　　　ongoing

Skills

Programming
Proficient in: LaTeX(including Beamer), Python, Julia
Familiar with: C++, Matlab

Service and outreach

Chairman of the Student Science and Technology Association of the School of Mathematical Sciences, Yangzhou University

Sep 2023 – Present

Assistant homeroom teacher of Jiangsu High School Mathematics Summer Camp

Jul 2023 – Aug 2023

Other interests   Jogging, Coffee, Movies, Swimming, and Photography etc.