Shun Li 李顺

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EDUCATION

Ph.D. in Computational Mathematics   *Sep. 2022 – Present*
Advisors: Prof. Mengping Zhang and Prof. Yan Jiang
School of Mathematical Sciences,
University of Science and Technology of China.

B.S. in Mathematics   *Sep. 2018 – July. 2022*
School of Mathematical Sciences,
University of Science and Technology of China.

RESEARCH INTERESTS

- Numerical analysis and scientific computing.
- Reduced order modeling and computations.
- Low-rank numerical algorithms.

TEACHING EXPERIENCE (TEACHING ASSISTANT)

- Numerical Methods for Nonlinear Partial Differential Equations, USTC, Spring 2024 and Spring 2025
- Numerical Methods for Partial Differential Equations, USTC, Fall 2023 and Fall 2024

PUBLICATIONS / PREPRINTS

- Shun Li, Yan Jiang, and Yingda Cheng. "High-Order Implicit Low-Rank Method with Spectral Deferred Correction for Matrix Differential Equations". In: *arXiv preprint arXiv:2412.09400* (2024) (submitted) 🖹
- Lei Yang, Shun Li, Yan Jiang, Chi-Wang Shu, and Mengping Zhang. "Inverse Lax-Wendroff boundary treatment of discontinuous Galerkin method for 1D conservation laws". In: *Communications on Applied Mathematics and Computation* 7.2 (2025), pp. 796–826 🖹

AWARDS AND HONORS

- Outstanding Student Scholarship (Gold Award), Undergraduate
- First Prize, National College Student Mathematics Competition (Anhui)
- National Endeavor Scholarship
- Outstanding Freshman Scholarship for Graduate Students

ADDITIONAL SKILLS

- Programming languages: C/C++, Python, MATLAB, Mathematica, Julia.
- Tools: Git, CMake, LaTeX, Linux