YUER CHEN

Ph.D. Student of Computational Mathematics
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PERSONAL STATEMENT

My research interests lie in

- Numerical Linear Algebra: large scale eigenvalue problems and linear solver,
- Numerical Approximation: rational approximation,
- Circuit Simulation: transient simulation, signal integrity analysis.

I am interested in the design and analysis of numerical algorithm and have experience in mathematical modeling and engineering.

EDUCATION

School of Mathematical Sciences, Fudan University   Shanghai, China
Advisor: Prof. Yingzhou Li   Sep 2022 – **June 2026(expected)**
Ph.D. Candidate

School of Mathematical Sciences, Fudan University   Shanghai, China
Advisor: Prof. Weiguo Gao   Sep 2020 – Sep 2022
Co-Advisor: Prof. Yingzhou Li
Master Program, *changed to Successive Postgraduate and Doctoral Program*

School of Mathematical Sciences, Fudan University   Shanghai, China
Advisor: Prof. Lei Shi   Sep 2016 – June 2020
Bachelor of Science

PUBLICATIONS

[Preprint]	**Interior eigensolver based on rational filter with composite rule,** Yuer Chen, Yingzhou Li, 2023, https://arxiv.org/abs/2310.18043.

PRESENTATIONS

2024, LSEC	**Interior eigensolver based on rational filter with composite rule,** Yuer Chen, Yingzhou Li The 1st Computational Mathematics Ph.D. Student Forum, The State Key Laboratory of Scientific and Engineering Computing, Beijing, China.
2024, SIAM	**Interior eigensolver based on rational filter with composite rule,** Yuer Chen, Yingzhou Li Minisymposium: Recent Development on Contour Integral Based Numerical Linear Algebra Methods, SIAM Conference on Applied Linear Algebra, Pairs, France.
2022, Huawei	**Circuit Simulation,** Yuer Chen, Xiang Li, Huawei-Fudan Workshop, Shanghai, China.

SELECTED AWARDS AND HONORS

- State Scholarship Fund—Visiting Ph.D. students, China Scholarship Council   2024
- Outstanding Academic Scholarship for Doctoral Students, 1st grade. Fudan University   2023
- International Algorithm Case Competition, HuangPu, Guangdong-Hongkong-Macao Greater Bay Area, 3rd grade. Pazhou Laboratory   2022
- "Shenzhen Cup" Mathematical Contest in Modeling, 2nd grade. Shenzhen Association for Science and Technology   2020
- Contemporary Undergraduate Mathematical Contest in Modeling, 1st grade. Committee of CUMCM   2019

TEACHING EXPERIENCES

| Teaching Assistance | MATH130008, Mathematical Modeling, Fudan University, Spring 2020-2021. |
| Teaching Assistance | MATH120014, Mathematical Analysis, Fudan University, Fall 2020-2021. |

INTERNSHIP

| HiSilicon, Huawei | Signal integrity analysis, 2023-2024. |
| HiSilicon, Huawei | Transient simulation of DAE, 2022-2023. |

PROJECT EXPERIENCES

| Department of Wireless, Huawei & Fudan University | Massive MIMO: separation of characteristic channel, 2021-2022. |