PINZHONG ZHENG

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EDUCATION

The Hong Kong Polytechnic University	09/2024 - Now
Ph.D. in Applied Mathematics	
Supervisor: Prof. Zhi Zhou	
Southern University of Science and Technology	09/2022 - 06/2024
M.Sc. in Mathematics	<i>GPA: 3.41</i>
Supervisor: Prof. Xiaoming Wang	

09/2018 - 06/2022

GPA: 3.45

Wuhan University B.Sc. in Mathematics Supervisor: Prof. Fengwen An

RESEARCH EXPERIENCE

PhD

Department of Applied Mathematics, The Hong Kong Polytechnic University, 2024

- Supervisor: Prof. Zhi Zhou
- Topic: Time-dependent model order reduction (MOR)

Research Assistant

School of Science and Engineering, The Chinese University of Hong Kong, Shenzhen, 2024

- Supervisor: Prof. Chaoyu Quan
- Topic: High-order structure-preserving schemes for Allen--Cahn type equations

PUBLICATIONS

• C. Quan, X. Wang, P. Zheng and Z. Zhou (2024). Maximum bound principle and original energy dissipation of arbitrarily high-order rescaled exponential time differencing Runge--Kutta schemes for Allen--Cahn equations. ArXiv, abs/2404.19188.

RESEARCH INTERESTS

- Time-dependent model order reduction (MOR)
- Exponential time differencing methods for semi-linear parabolic equations
- Structure-preserving numerical schemes for gradient flows

TEACHING EXPERIENCE

Teaching Assistant

Calculus, Southern University of Science and Technology, 2023

HORORS

- Excellent Master's Thesis of Southern University of Science and Technology, 2024
- National Encouragement scholarship, 2020
- The Provincial Second Prize, Contemporary Undergraduate Mathematical Contest in Modelling (CUMCM), 2020
- Outstanding students of Wuhan University, 2020
- The Third Prize, the Chinese Mathematics Competitions (CMC), 2019

PERSONAL SKILLS

- Academic Skills: Proficient in *MATLAB* and *LaTeX*
- English Proficiency: IELTS: 6.5
- Hobbies: Long-distance running (personal best of 10-km is 53 minutes)