**PINZHONG ZHENG**

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**Address:** Department of Applied Mathematics, The Hong Kong Polytechnic University, Hong Kong, China

EDUCATION

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| **The Hong Kong Polytechnic University** | *09/2024 - Now* |

Ph.D. in Applied Mathematics

Supervisor: Prof. Zhi Zhou

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| **Southern University of Science and Technology** | *09/2022 - 06/2024* |
| M.Sc. in Mathematics | *GPA: 3.41* |

Supervisor: Prof. Xiaoming Wang

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| **Wuhan University** | *09/2018 - 06/2022* |
| B.Sc. in Mathematics | *GPA: 3.45* |

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)