

XIE Yichuan

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EDUCATION

The Chinese University of Hong Kong

Ph.D. in Mathematics

- Qualifying examinations passed: Real Analysis, Complex Analysis

Sha Tin, Hong Kong SAR

August 2024 – Present

University of Wisconsin–Madison

Visiting International Student Program, Mathematics Track

- GPA: 4.000/4

Madison, United States

August 2023 – May 2024

The Chinese University of Hong Kong, Shenzhen

B.Sc. in Mathematics and Applied Mathematics (Pure Mathematics Stream)

- CGPA: 3.724/4, MGPA: 3.900/4

Shenzhen, China

September 2020 – May 2024

RESEARCH BACKGROUND

Nonlinear PDE, calculus of variations, and geometric measure theory; recent study and research preparation on Allen–Cahn equations, mean curvature flows, Ginzburg–Landau/superconductivity models, and liquid crystal models

EXPERIENCE

Advanced PDE Summer School

Zhejiang University

- Participated in a 2-week series of seminars in PDE

June 2025

Hangzhou, China

Independent Study

CUHK-Shenzhen

- Studied the Hodge decomposition theorem and related tools from differential geometry and elliptic PDE theory (Mentor: Prof. CHEN Yuan)

January 2023 – May 2023

Shenzhen, China

Undergraduate Student Teaching Fellow

CUHK-Shenzhen

- Conducted tutorials for MAT2002 Ordinary Differential Equations

January 2023 – May 2023

Shenzhen, China

Graduate Seminar in Low-dimensional Topology

CUHK-Shenzhen

- Participated in a graduate seminar on low-dimensional topology, with topics including geometric group theory and three-dimensional manifolds

September 2022 – December 2022

Shenzhen, China

SKILLS

Programming: Python (NumPy, Pandas), Java, LaTeX

Languages: Mandarin (native), English (fluent)

HONORS AND AWARDS

Postgraduate Studentship

Graduate School, CUHK

August 2024 – July 2028

Sha Tin, Hong Kong SAR

Dean's List

School of Science and Engineering, CUHK-Shenzhen

2020 – 2023

Shenzhen, China

Full Admission Scholarship (120,000 RMB per year, merit-based)

CUHK-Shenzhen

2020 – 2024

Shenzhen, China

Bronze Medal

China Mathematical Olympiad

December 2019

Wuhan, China

First Prize

National High School Mathematics League

September 2019

Shenzhen, China