

Mingyu Xia

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✍ RESEARCH INTERESTS

- **Mesoscopic Transport:** Applications of the *Nonequilibrium Green Function* theory to two-dimensional materials.
- **MKCT:** Memory Kernel Coupling Theory.

♦ EDUCATION

Westlake University, Physics

Zhejiang, China

Ph.D. in Science

09/2025 – 06/2030

- **Thesis:** *(Expecting)*

- **Awards:** *(Expecting)*

(Expecting)

Hangzhou Dianzi University, Opto-Electronics Information Science and Engineering

Zhejiang, China

Bachelor of Engineering

09/2021 – 06/2025

- **Thesis:** *Research & Applications of Micromagnetics Based on LLG Equation*

(Excellent Thesis Exhibition Award)

- **Awards:** The first, second and third prize scholarships once. GPA: 3.83

🌿 PUBLICATIONS

[1] M. Xia, *(expecting)*, 2026.

[2] M. Xia, *(expecting)*, 2026.

[3] M. Xia, *(expecting)*, 2026.

[4] M. Xia, *(expecting)*, 2026.

[5] M. Xia, *(expecting)*, 2026.

✿ RESEARCH EXPERIENCE

Undergraduate Research Summer Camp at CUHK(SZ)

07/2024 – 08/2024

- School of Science and Engineering, PHY Programme Academic Exploration Award
- Topic: *Research on the Transitions of Magnetic Skyrmion Tube, Toron and Chiral Bobber Controlled by PMA and External Field in Chiral Magnets*

﴿ HONORS & AWARDS

Zhou Peiyuan Mechanics Competition for College Students

08/2023, 07/2025

- The National Third Prize Chinese Society of Theoretical and Applied Mechanics

Mathematics Competition of Chinese

01/2023

- The National Second Prize Chinese Mathematical Society

Undergraduates Physics Experiment and Department Technological Innovation Competition

09/2023

- The Provincial Third Prize Zhejiang Physical Society

⚙ SKILLS

- **IT Skills:** MATLAB, Python, L^AT_EX, Origin
- **Languages:** Native Chinese, Proficient English (IELTS: 6.0), Basic knowledge of Cantonese

