

# Mingyu Xia

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## RESEARCH INTERESTS

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

## EDUCATION

**Westlake University**, Physics Department Zhejiang, China  
*Ph.D. in Science* 09/2025 – 06/2030

- **Supervised by**  WENJIE DOU (*Laboratory of Theoretical and Computational Chemistry*)
- **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, Physics 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<sup>A</sup>T<sub>E</sub>X, Origin
- **Languages:** Native Chinese, Proficient English (IELTS: 6.0), Basic knowledge of Cantonese