

Mingyu Xia

✉ xiamingyu@westlake.edu.cn ☎ (852) 4654 0513

RESEARCH INTERESTS

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

 EDUCATION

Westlake University, Physics Department, *Laboratory of Theoretical and Computational Chemistry* 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

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| • School of Science and Engineering, Physics Programme | Academic Exploration Award |
| • Topic: <i>Research on the Transitions of Magnetic Skyrmion Tube, Toron and Chiral Bobber Controlled by PMA and External Field in Chiral Magnets</i> | |

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

SKILLS

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