

Jiayi Liwei

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Profile

Applied mathematics undergraduate with expertise in analysis, linear algebra, and dynamical systems. Experienced in independent research, scientific computing, and academic instruction.

Education

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| Sep 2024 - present | University of California, Los Angeles |
| Los Angeles, USA | B.S. Applied Mathematics, Class Level: Senior <ul style="list-style-type: none">GPA: 3.728/4.0 Dean's Honors List, Winter 2026Upper Division Courses: 115A (A+), 131A (A), 134 (A) |
| Sep 2022 - Jun 2024 | Wycombe Abbey School Hangzhou |
| Hangzhou, CHINA | High School Diploma, Valedictorian <ul style="list-style-type: none">GPA: 4.3/4.3 COBIS Student Achievement Award, President of Student CouncilA-Levels: 3A*3A including Extended Project (Gifted Education in China) |
| Sep 2020 - Jun 2022 | Adcote School Shanghai |
| Shanghai, CHINA | International GCSE certificate <ul style="list-style-type: none">GPA: 3.99/4.0 Scholar, President of Math ClubIGCSEs: 7A* including CS and Economics |

Research Experience

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| Jan 2026 - present | FPUT Recurrence, Soliton Dynamics & Stochasticity Threshold |
| | Math 134 Course Project Advisor: Prof. Edith Zhang <ul style="list-style-type: none">Built symplectic integrator in Python with JIT and C++ with CUDA.Identified stochasticity threshold and scaling laws; preparing arXiv preprint. |

Academic & Leadership

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| Sep 2025 - present | UCLA Olga Radko Endowed Math Circle (ORMC) |
| | Instructor Director: Dr. Oleg Gleizer <ul style="list-style-type: none">Lead problem-solving sessions for gifted studentsPrepare classes with various topics (combinatorics, algebra, geometry) |

Technical Skills

- Mathematics: ODEs, Bifurcation Theory, Chaos Theory, Real Analysis, Linear Algebra (foundational); Linearization, Stability Analysis, Scaling Analysis, Nondimensionalization
- Programming: Python (NumPy, SciPy, Numba), R, C++, LaTeX
- Tools: Git (version control), Matplotlib, Scientific Visualization