

# WEI Wenjie

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## Education

**Jilin University**, B.S. in Computational Mathematics Sep. 2022 – Jul. 2026(Expected)

- **GPA: 3.84/4.0, Average Score: 91.92/100, Rank: 3/79(Top 3.8%)**
- Coursework: Mathematical Analysis II(91), Advanced Algebra I(94), Data Structures and Algorithms(97.2), Functional Analysis(95), Partial Differential Equations(95), Advanced Numerical Analysis(98), Numerical Optimization(92.3)
- Research Interest: Deep Learning, Optimization, Artificial Intelligence, Data Analysis, Scientific Computing

**The Hong Kong University of Science and Technology, Department of Mathematics**, Visiting Student  
Jul. 02, 2025 – Aug. 06, 2025

- Selected for the Department of Mathematics 2025 Summer Research Program at HKUST.
- Using LLM-based automatic algorithm evolution and polynomial optimization methods for semidefinite programming, an attempt is made to search for a better upper bound in the Kissing Number problem within the two-point method.

## Research Projects

**Auxiliary Detection Model for BCC Pathological Risk Grading Based on Improved YOLOv8 (Supervised by Prof. Jia Jiwei)** Aug. 2024 - Apr. 2025

- The project is **in collaboration with the Dermatology Department of the Second Hospital of Jilin University**, with sample labels annotated by clinic doctors.
- Improved the overall network architecture and proposed **AMSF-Net**(Attentive Multi-Scale Fusion Network).
- Integrated a **coarse lesion classification module** into the loss function based on specific medical requirements and a multi-task learning strategy.
- Tested the detection performance on datasets, improving the accuracy **from 85.97% to 87.79%**.
- This project has been approved as a **2025 undergraduate research training project at Jilin University**, and the paper is currently being written in preparation for publication.

## Internship Experience

**Bioinformatics Analysis Intern**, Guangzhou Laboratory, Guangzhou, China Feb. 09, 2025 – Feb. 18, 2025

- Engaged in interdisciplinary studies to gain insights into HiC sequencing technology for 3D genome research.
- Used R programming to cluster and project Hi-C results onto RNA sequencing data using UMAP.

## Leadership Experience

- President of the 16th Students' Association Union, School of Mathematics, Jilin University Nov. 2024 - Present
- Dormitory Director, Student Committee for Apartment Management and Services, Jilin University Sep. 2024 - Present
- Monitor, School of Mathematics, Jilin University Nov. 2022 - Present

## Honers and Awards

- **National Scholarship**, Ministry of Education of the People's Republic of China Dec. 2025
- **National Scholarship**, Ministry of Education of the People's Republic of China Dec. 2024
- **SAMSUNG Scholarship(Only 11 selected school-wide)**, Samsung Electronics China Apr. 2025
- Provincial First Prize in China Undergraduate Mathematical Contest in Modeling, China Society for Industrial and Applied Mathematics Dec. 2023, Dec. 2024
- The First Class Scholarship, Jilin University Dec. 2023
- University Excellent Student Leader, Jilin University Dec. 2023, Dec. 2024, Dec. 2025
- University Excellent Student, Jilin University Dec. 2024, Dec. 2025

## Skills

**Software:** Python, MATLAB, LaTeX, C/C++, Linux, R

**Language:** Mandarin(Native), English(**IELTS Overall: 7.0**, CET-6: 500)