

**Jiayu Wu**  
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## Research Interests

**Geometric Modeling   Computer-aided Design   Parallel Computing   Computational Geometry**

## Education

2023–      **M.S.** in Artificial Intelligence, Zhejiang University, Weighted Average(91.8/100)  
Rank(NA\*)  
2019–2023   **B.Sc.** in Software Engineering, Dalian University of Technology, GPA(3.90/4.0)  
Rank(2/73)

## Research Experience

2023–      Graduate Student, [State Key Laboratory of CAD&CG](#), Zhejiang University, (Advisor:  
[Prof. Qiang Zou](#))

## Selected Publications

### Journal Articles

- J1. **Jiayu Wu**, Feng, Z. & Zou, Q. Matrix representation and GPU-optimized parallel B-spline computing. *Computer-Aided Design* **189**, 103948 (2025).
- J2. Zou, Q., Zhu, L., **Jiayu Wu** & Yang, Z. SplineGen: Approximating unorganized points through generative AI. *Computer-Aided Design* **178**, 103809 (2025).
- J3. Zhao, Y., Zou, Q., Luo, G., **Jiayu Wu**, Chen, S., Gao, D., Xuan, M. & Wang, F. TPMS2STEP: Error-Controlled and C2 Continuity-Preserving Translation of TPMS Models to STEP Files Based on Constrained-PIA. *Computer-Aided Design* **173**, 103726 (2024).

## Presentations

### Talks

- T1. **Jiayu Wu**. *Matrix representation and GPU-optimized parallel B-spline computing* SPM 2025: Symposium on Solid and Physical Modeling (Hangzhou, China). Oct. 2025.

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\*Due to different course selections, the College of Computer Science where I am located does not provide grade rankings. In the academic year's class average statistics, I was 1/33 in my administrative class.

## Awards & Honors

### Awards and Achievements

- 2020, 2021 **Gold Award**, Liaoning Provincial Programming Contest.
- 2020 **Bronze Award**, CCPC Undergraduate Programming Competition (Northeast China).
- 2020 **Silver Award**, National College Student Algorithm Programming and Design Contest.
- 2021 **Winning Prize**, 2021 ICPC Asia Regional Finals (ICPC EC-final).
- 2021 **Individual Second Prize**, CCCC National Group Programming Ladder Competition.

### Scholarship

- 2020, 2021 **First-class scholarship for study**. Dalian University of Technology.
- 2020–2022 **Science and Technology Innovation Scholarship**. Dalian University of Technology.
- 2020 **National Scholarship**. Ministry of Education of the People's Republic of China.
- 2024 **First-class Scholarship for Academic Excellence**. Zhejiang University.

### Honors

- 2023 **Outstanding Graduate**. Dalian University of Technology.
- 2024 **Academic Innovation Ability Single Honor**. Zhejiang University.

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