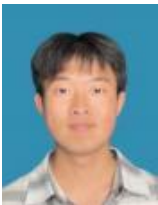


# Biao Xu

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## Education

**Nanjing University of Aeronautics and Astronautics** Sep 2019 - Jun 2023

**Bachelor's in Aerospace Manufacturing Engineering**

GPA: 88 Rank: 3/142

Key Courses: Engineering Mathematics Analysis, Analytical Geometry and Linear Algebra, Data Structures, Differential Equations, Machine Learning, Leadership Science

**Nanjing University of Aeronautics and Astronautics** Sep 2023 - Present

**PhD in Aeronautical and Astronautical Science and Technology**

GPA: 86

Key Courses: Matrix Theory, Numerical Analysis, Computer Graphics, Intelligent Machine Systems and Smart Manufacturing, British Legal System, Language and Society

## Research Experience

**Sep 2022 - Jun 2023** **Research Skill Training**

- Participated in research training focused on "Electrostatic Adhesion."
- Responsible for designing the electrostatic adhesion membrane and writing the summary report, which received excellent reviews.
- Completed an undergraduate thesis based on electrostatic adhesion.

**Sep 2023 - Jun 2024** **Robot Dynamics Research**

- Developed a dynamic model for industrial robots with damping.
- Completed the following patents and papers:
  - Method for Calculating the Frequency Response Function of a Robot Cutting System (Patent, Under Review)
  - A Complex Extended Transfer Matrix Method for Computing the Frequency Response Function of Mechanical Systems (Paper, Under Review)

## Activities

**Sep 2019 - Dec 2019** **Academic Development Center (Student Union)**

- Engaged in faculty communication and student academic support as a member.
- Planned and organized networking events.

**Jul 2020 - Aug 2020** **National College Students' Mathematical Modeling Competition**

- Served as team leader, responsible for model development and task allocation, successfully building the "Sky Eye" reflector model.

**Jun 2021 - Aug 2021** **Engineering Innovation Practice (University-level)**

- Led a team to design and build a "green" smart car powered by gravitational potential energy.
- Responsible for model development, blueprint design, car assembly, and testing, successfully completing the project.

**Jan 2024 - Feb 2024** **Yunnan Fumin County Party Committee Organization Department**

- Participated in the "Return to Hometown" social practice program, responsible for talent cultivation policy development and review.
- Awarded "Outstanding Individual in Social Practice."

## Awards

- Freshman Special Scholarship (2 times)
- University Academic Scholarship (4 times)
- University Outstanding Student Scholarship (4 times)
- University "Three Good Students" Honorary Title (1 time)
- Third Prize in the National College Students' Mathematics Competition (Non-Mathematics Major) (1 time)

## Additional Information

**Skills:** Excellent in National Computer Rank Examination Level 2

**Languages:** IELTS 7, CET-6 561

## Personal Statement

I am a sincere and kind person with a great passion for exploring the unknown. I see research as the spice of life, allowing me to converse with my soul and continuously understand myself.