

# Wangjie Su

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## Education

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|--|---------------------------|
| <b>Peking University</b> , Theoretical and Applied Mechanics   | <b>Sep 2023 - Present</b> |
| <b>Peking University</b> , Double Degree, Intelligent Science and Technology   | <b>Sep 2024 - Present</b> |
| • <b>GPA:</b> 3.805/4.0  |                           |
| • <b>Coursework:</b> Mathematical Analysis, Linear Algebra, Data Structure and Algorithm(Grade: <b>100</b> ), Computer Vision, Probability and Mathematical Statistics, Programming in AI(Grade: <b>100</b> ), Numerical Analysis, Introduction to Generative Modeling, Introduction to Intelligent Robots, Machine Learning |                           |

## Experiences

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|--|---------------------|---------------------------|
| <b>Prof. Zheng Chen</b> Research Group   | Research Internship | <b>May 2025 – Present</b> |
| • Currently working on an undergraduate research project subjected on the reconstructions of flow field in the case of high Mach number flows and detonation using ML methods including CNN, PINN and Generative Models. |                     |                           |

## Projects

|  |                |                                 |
|--|----------------|---------------------------------|
| <b>AMP-STROTSS Neural Style Transfer</b>   | Course Project | <b>Fall 24, Computer Vision</b> |
| • We imported additional control methods to allow user-specified point-to-point or region-to-region control over visual similarity between the style image and the output automatically by auto-mask technique, provides higher quality stylization and better content-style balance than prior works. |                |                                 |

|   |                |                                   |
|---|----------------|-----------------------------------|
| <b>Tiny PyTorch</b>   | Course Project | <b>Fall 24, Programming in AI</b> |
| • A comprehensive reimplementation of a deep learning framework designed to simulate PyTorch, progressing from low-level CUDA kernels and C++ backend operations to Python APIs and successfully training a model on the MNIST dataset, offering a clear reference for understanding the internal mechanics of modern AI systems. |                |                                   |

## Honors & Awards

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| • Merit Student, Peking University (2025)  |
| • Undergraduate National Scholarship, Peking University (2025)   |
| • Beijing Division of the National College Student Mathematical Modeling Competition, Second Prize (2025). |
| • Peking University Outstanding Learning Award, Peking University (2024)                                   |
| • Peking University 3 <sup>rd</sup> Scholarship, Peking University (2024)                                  |
| • Beijing College Student Mathematics Competition, First Prize (2024).                                     |

## Skills

**English:** CET-4, CET-6

**Programming Language:** C/C++, CUDA, CMake, Python, MATLAB, LaTeX

**Technologies:** Pytorch, Git, Linux, Scikit-learn, Jupyter Notebook, OpenFoam