

XUAN WU

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PERSONAL STATEMENT

I'm currently a junior student at the Department of Nuclear Science and Technology at USTC. Due to my enthusiasm in computer science, I chose to pursue it as a minor from this semester (2024.02) while majoring in Nuclear Science. In my spare time, I self-studied machine learning, reinforcement learning and other AI technologies, which can support further research in computational physics. Addition to my academic pursuits, I also keep the hobby of cycling and jogging, which I believe can contribute to my physical and mental strength, guaranteeing me for high intensity scientific research.

EDUCATION

B.E. at University of Science and Technology of China 2021.09-2025.06 (expected)
Major in Nuclear Engineering & Technology
Minor in Computer Science & Technology
Overall GPA: 3.54/4.3
Department Ranking: 10/23
CET4: 626
CET6: 552
Related Courses: Mathematical Analysis B(91), Computational Method(95), Atomic Physics A(90), Electrodynamics (85), Introduction to Plasma Physics(83), Quantum Mechanics B(93)

PROJECT

CT Image Restoration Based on ResNet	2023.10-2023.11
<ul style="list-style-type: none">· Build a ResNet(16 levels) based on TensorFlow· Able to denoise CT images with quantum noise and electronical noise· Increase average PSNR from 70.2 to 76.0	
Embodied Intelligence Research	2024.02-2024.05
<ul style="list-style-type: none">· Supervised by Prof. Xianghang Mi· Conduct research on several embodied AI benchmarks, including Calvin, LoHo-Ravens, Arnold, etc.· Debug and run project code to reproduce the result	
5-stage Pipeline CPU Based on Verilog	2024.03-2024.04
<ul style="list-style-type: none">· Lab of COD course· Able to tackle data hazard and control hazard	

TECHNICAL STRENGTHS

Computer Languages	C/C++, Python, Matlab, Verilog
Tools	Git, L ^A T _E X, PyTorch, Linux

INTERESTS

Machine Learning
Computational Physics