Chenxu Bai

Undergraduate | College of Engineering | Peking University
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Education

Peking University, Robotic Engineering   **Sep 2023 - Present**
• **GPA**: 3.614/4.0
• **Coursework**: Fundamentals of AI, Software Design, Computational Photography(Grade: 100), Programming in AI(Grade: 100)

Experiences

Prof. Mohan Chen Research Group	Research Intern	**Nov 2023 – Nov 2024**
AISI(AI for Science Institute, Beijing)	Intern	**Aug 2024 – Nov 2024**
Supervisor: **Prof. Mohan Chen**		Beijing

• My work focuses on **scientific computing**, mainly for ABACUS (Atomic-orbital Based Ab-initio Computation at UStc), which is an **open-source** package (GitHub Repo: abacus-develop, Star:174) based on density functional theory (DFT), aiming for large-scale electronic-structure simulations from first principles.
• My contributions include:
    • Binding certain modules of ABACUS to Python (**Pythonization** of ABACUS)
    • **Maintaining** and **refactoring** parts of the source code of ABACUS

Camera Intelligence Lab, IDM/NERCVT	Research Intern	**Nov 2024 – Present**
Supervisor: **Prof. Boxin Shi**		Beijing

Technologies

English: CET-4, CET-6
Programming Language: C/C++, Python, MATLAB, Rust(learning...)