

Chenxu Bai

Undergraduate | [School of EECS](#) | [Peking University](#)
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Education

Peking University, Computer Science

Sep 2023 - Present

- **GPA:** 3.642/4.0
- **Coursework:** Fundamentals of AI, Software Design, Data Structure and Algorithm(Grade: **100**), Computational Photography(Grade: **100**), Programming in AI(Grade: **100**)

Experiences

Prof. Mohan Chen Research Group

Research Internship

Nov 2023 – Nov 2024

AISI(AI for Science Institute, Beijing)

Internship

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](#), Starred: 216) 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 Internship

Nov 2024 – Present

Supervisor: **Prof. Boxin Shi**

Beijing

• My current research interests lie in computer vision and computational photography, with a particularly emphasis on neuromorphic camera imaging.

Skills

English: CET-4, CET-6

Programming Language: C/C++, Python, MATLAB, Rust(learning...)