Chenxu Bai

Undergraduate | School of EECS | Peking University

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EDUCATION

Peking University, Robotics Engineering   **2023.09 − 2025.09**
Peking University, Computer Science and Technology   **2025.09 − Present**

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

EXPERIENCES

Prof. Mohan Chen Research Group   Undergraduate Research Project   **2023.11 − 2024.11**
AISI (AI for Science Institute, Beijing)   Internship   **2024.08 − 2024.11**
Supervisor: Prof. Mohan Chen   Beijing, China

- My work focuses on **scientific computing**, mainly for **ABACUS** (Atomic-orbital Based Ab-initio Computation at USTC), an **open-source** density functional theory (DFT) package (Github Starred: 228) for large-scale electronic-structure simulations from first principles.
- My contributions include:
  - Binding selected modules of ABACUS to Python ("**Pythonization** of ABACUS").
  - **Maintaining** and **refactoring** parts of the ABACUS source code.

Camera Intelligence Lab, IDM/NERCVT   Research Internship   **2024.11 − Present**
Supervisor: Prof. Boxin Shi   Beijing, China

- My current research interests lie at the intersection of **computer vision** and **computational photography**, with a particular emphasis on neuromorphic camera imaging.

HONORS & AWARDS

- Merit Student, Peking University (2025)
- Knovva Scholarship, Knovva Academy (China) Inc. & Peking University (2025)

SKILLS

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