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: 225) 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.

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...)