Curriculum Vitae Unchun Yang

Unchun Yang

Contact Information

Chung-Ang University

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Research Interests

• High-Performance Computing: Parallel computing for scientific applications

• Computational Science: Developing an automated simulation and analysis software

• Processor Architecture: Efficient manycore processor architecture for parallel computing

Education

2018 - Present: B.S., Computer Science and Engineering, Chung-Ang University, Seoul, South Korea

Experience

July 2019 - Present: Independent Researcher

- Using high-performance computing, support materials scientists.
- Develop software to automate VASP (Vienna Ab initio Simulation Package) DFT (Density Functional Theory) calculation and analysis process.

Publications

• Joe, Minwoong, **Unchun Yang**, and Changgu Lee. "First-Principles Study of Ferromagnetic Metal Fe5GeTe2." Nano Materials Science, Special Issue on two-dimensional nanomaterials, 1, no. 4 (December 1, 2019): 299–303. https://doi.org/10.1016/j.nanoms.2019.09.009.

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Skills

- Parallel Computing: OpenMP, MPI
- Heterogeneous Computing: GPGPU (CUDA)
- Computational Science: Programming simulation software for parallel systems
- Artificial Intelligence: Fundamental machine learning algorithms
- Programming / Scripting: C, C++, Fortran, Assembly, Python, Java, SQL, Bash, Web, Android, etc.
- System Administration: Linux system administration
- Information Security: Secure coding, Linux system security management
- Mathematics / Science: Basic understanding of mathematics (calculus, linear algebra, etc.) and science (physics, chemistry, etc.)
- Languages: English (Professional Working), Korean (Native)

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