# **Unchun Yang**

### **Contact Information**

Chung-Ang University

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Website: <a href="https://ucyang.com/">https://ucyang.com/</a>

#### **Research Interests**

- High-Performance Computing: Parallel computing for scientific applications
- Computational Science: Developing an automated simulation and analysis software
- Quantum Computing: Various quantum algorithms (quantum machine learning, etc.)

#### Education

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

#### Experience

#### Mar 2020 – Feb 2021: Research Assistant / Sungkyunkwan University

- 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. <u>https://doi.org/10.1016/j.nanoms.2019.09.009</u>.

## Skills

- Software Engineering: C, C++, Python, PHP, JavaScript, SQL (MariaDB), etc.
- System Administration: Linux system administration (CentOS, Ubuntu, etc.), Cisco IOS
- Information Security: Security engineering, Secure coding
- High-Performance Computing: OpenMP, OpenACC, MPI
- Artificial Intelligence: Fundamental machine learning algorithms
- Languages: English (professional working), Korean (native)