

Hoang Anh Le

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Postdoctoral Research Fellow at **Center for Quantum Nanoscience**
Institute for Basic Science (IBS), Seoul 03760, Republic of Korea
Ewha Womans University, Seoul 03760, Republic of Korea

EDUCATION

Korea University, Seoul, Republic of Korea 2024
Doctor of Philosophy in Physics Supervisor: S.-R. Eric Yang

Hanoi National University of Education, Vietnam 2017
Bachelor degree in Physics Valedictorian

PUBLICATIONS

Phase Diagram and Crossover Phases of Topologically Ordered Graphene Zigzag Nanoribbons
Role of Localization Effects (to appear in J. Phys.: Condens. Matter, [arXiv:2307.04352](https://arxiv.org/abs/2307.04352))
Hoang-Anh Le, In Hwan Lee, Young Heon Kim and S.-R. Eric Yang

Mutual Information and Correlations across Topological Phase Transitions in Topologically Ordered Graphene Zigzag Nanoribbons. [Entropy 2023, 25\(10\), 1449](https://doi.org/10.1088/1367-2630/25/10/1449)
In Hwan Lee, **Hoang-Anh Le** and S.-R. Eric Yang

TECHNICAL SKILLS

Experience in programming Python
Hartree-Fock algorithm, Machine learning, tensor network

Experience in using HPC clusters from KISTI supercomputing center

ACTIVITIES

29th Vietnam School of Physics, Quy Nhon, Vietnam, August 2023
Study DFT and machine learning techniques for material designs

34th IUPAP Conference on Computational Physics, Japan, August 2023
Phase Diagram and Crossover Phases of Topologically Ordered Graphene Zigzag Nanoribbons, Poster presentation

International Conference on Strongly Correlated Electron Systems 2023 (SCES), Korea, July 2023
Phase Diagram and Crossover Phases of Topologically Ordered Graphene Zigzag Nanoribbons, Poster presentation (**Best poster award**)

International Workshop on Solid-State Qubits, Daejeon, Korea, April 2019
Teaching Assistant for "Hands-On Tutorial on IBM Qiskit"

AWARDS AND SCHOLARSHIPS

Best poster award, SCES 2023 July 2023

Global Leaders Scholarship (Full scholarship) 2018
for integrated MS-PhD program in Korea University

Valedictorian of HNUE 2017

First prize of National Physics Olympic (Vietnam) 2016, 2017

LANGUAGES

Vietnamese (mother tongue)
English (professional working proficiency) and Korean (intermediate)