



Kurt Irvin M. Rojas

Work Experience

Visiting Researcher

Osaka University, Japan | February 2020 - April 2020

- Performed theoretical calculations research to test the material stability and prepared publication manuscript

Research Assistant

De La Salle University, Philippines | August 2016 - December 2016

- Planned, modified and executed research techniques, procedures and tests
- Gathered literature and assisted writing reports for research collaborators

Research Intern

HGST, Philippines | May 2015 - July 2015

- Conducted research on HDD head test procedures for improvement
- Dealt specially on acoustic emission and friction sensor for disk wear testing.

Detail-oriented Researcher with hands-on experience on clerical and laboratory work. Highly proficient in conducting comprehensive literature reviews, providing computational research support and preparing publications.

Expertise

- Data analysis and visualization via python
- Technical Writing
- VASP, atomistic simulation
- Quantum espresso, atomistic simulation
- Bash scripting

Academic History

Master of Science in Physics

De La Salle University, Philippines | January 2017 - Present

Quantum Engineering Design Course

Osaka University, Japan | October 2018 - September 2019

Bachelor of Science in Physics (Material Science Specialization)

De La Salle University | January 2012 - August 2018

Reach me at

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Sucat, Parañaque, 1715 Metro Manila

Publications

First Principles Study of H₂ Adsorption on Ni-decorated Silicene

Material Research Express, 6, 055509, 2019.

Ca and K Decorated Germanene as Hydrogen Storage: An ab initio study

International Journal of Hydrogen Energy, 43, 4393, 2018.

H₂ Adsorption on K Decorated Germanene Surface: An ab-initio investigation

Materials Research Express, 3, 115015, 2016.