

Professor Al Rey Villagracia
De La Salle University, Philippines



Al Rey Villagracia is a Research Fellow and Full professor at the Department of Physics, De La Salle University. He is currently the head of the Advanced Nanomaterials Investigation by Molecular Simulations. He co-organizes the [Computational Materials Design Workshop](#) in the Philippines as the local (co-) chair with professors from Osaka University. He received his PhD Degree at [De La Salle University](#) sponsored by the Department of Science and Technology under the [Accelerated S&T Human Resource Development Program](#). He was an exchange student as a visiting researcher in Osaka University under the [Short Course Quantum Engineering Design](#) program sponsored by Japan Student Services Organization(JASSO).

He was designated as a Senior Research Fellow at the Centre for 2D Materials and Graphene Research Centre of National University of Singapore from January 2017 - April 2017. He received a Postdoctoral Research Scholarship grant from United States Agency for International Development (USAID) to conduct his research at the University of Arizona (April 2017 - November 2017), and at the University of Florida (December 2017-March 2018).

His research interest is mainly on computational physics and mathematical modelling, which includes the following but not limited to molecular dynamics, stochastic input-output models, complex systems such as traffic dynamics systems and epidemic outbreak, and density functional theory applications on energy storage, 2D Materials, and polymer-non polymer interface interactions.