

**NEIL HUYNH****Institute of High Performance Computing (IHPC), A\*STAR**

Neil HUYNH Hoài Nguyên is a Vietnamese Singaporean. Originally from South of Vietnam, he came to Singapore in 2005 and obtained Bachelor of Science in Physics (1<sup>st</sup> Class Honours) from Nanyang Technological University (NTU) in 2008 under an accelerated program. He later pursued Doctor of Philosophy in Physics from the same university as a Nanyang President's Graduate Scholar. Upon completing his PhD, Dr. Huynh joined the emerging Complexity Program, later Complexity Institute (CI) in NTU in 2012. He then joined Institute of High Performance Computing (IHPC) in Singapore as an A\*STAR International Fellow, concurrently appointed a Research Fellow at CI and a Scientist at IHPC since 2014.

Dr. Huynh's research areas fall in the field of Complex Systems. His interest in Complex Systems involves studying different natural and social phenomena that share the same emergent properties and can be tackled using the approaches of Nonlinear Dynamics and Statistical Mechanics. The aim is to understand the fundamental driving mechanisms of these systems and to see if they share any common underlying (new) physics. He has been working on a number of different projects (<https://sites.google.com/site/nelive/home/research>) on Nonlinear Dynamics, Fractals and Self-Organized Criticality. Recently, Dr. Huynh's work focuses on modelling dynamics of people's online sharing behaviours in Social Media; as well as bringing insights from Self-Organized Criticality to understanding complex natural phenomena like atmospheric convection. He is also interested in Urban Morphology, studying the geometrical as well as dynamical properties of the spatial and temporal structures found in different urban systems.