

CHEONG SIEW ANN**Nanyang Technological University**

Dr CHEONG Siew Ann was born in Singapore in 1969. After getting through his primary, secondary, and junior college education in Ama Keng Primary School, the Chinese High School, and Hwa Chong Junior College respectively, and thereafter a contract service with the Singapore Armed Forces, he studied physics at the National University of Singapore. He graduated in 1997 with a BSc (Hons) degree in physics, and went on to obtain his PhD in theoretical condensed matter physics from Cornell University in 2006. He then spent a year and a half as a postdoctoral associate with the Cornell Theory Center, working on biological sequence segmentation, before joining the Nanyang Technological University as an Assistant Professor in Physics and Applied Physics in August 2007.

Research Interests

His main research interest is in developing data analysis methods and toy models for understanding the dynamics of complex systems such as biological macromolecules, the brain, earthquakes, financial markets, and infectious diseases. In particular, he works extensively with high-frequency, large-volume time series data, to cluster them, segment them, and also to estimate complex networks based on significant events in such data. His other research interests are in the areas of computational physics and condensed matter physics.