

Biography

Dr Hoi Chun PO is currently the Hari Harilela Assistant Professor of Physics at the Hong Kong University of Science and Technology (HKUST). He is a theoretical condensed matter physicist broadly interested in the study of collective phenomena arising from a large number of quantum particles. Some of his research foci include the interplay between symmetries and topology in quantum materials, the intersection between quantum information and condensed matter theories, as well as out-of-equilibrium quantum dynamics. Dr. Po grew up in Hong Kong and obtained his bachelor's degree from the Chinese University of Hong Kong in 2013. He began his doctoral studies at the University of California, Berkeley, but transferred to Harvard University in 2016 together with the move of his thesis advisor. After obtaining his PhD from Harvard in 2018, he moved to MIT as a Pappalardo Postdoctoral Fellow. He returned to Hong Kong and joined HKUST in 2021. His research on highly entangled quantum many-body state is currently receiving support from a Croucher Tak Wah Mak Innovation Award.



Research Areas

- Symmetries and phases of quantum many-body systems
- Non-equilibrium quantum dynamics
- Fundamentals of band theory
- Topological materials discovery
- Magnetism and superconductivity
- 2D and moiré materials

Awards and Honors

- Croucher Tak Wah Mak Innovation Award 2023
- Frontiers of Science Award, 2023 International Congress of Basic Science
- MIT Pappalardo Fellowships in Physics (2018-21)
- Croucher Foundation Fellowships for Postdoctoral Research (Honorary; 2018-20)
- Outstanding Graduate Student Instructor Award (UC Berkeley, 2014)
- Hellman Graduate Award (UC Berkeley, 2014)