Curriculum Vitae of the co-PI

Name: Ravishankar Ramanathan (DoB: July 12, 1983)

Academic qualifications

♦ PhD , Physics, National University of Singapore, Singapore	01.2011-03.2013
♦ M.Sc., Physics, National University of Singapore, Singapore	08.2006-12.2008
♦ B.Eng. , EEE, Nanyang Technological University, Singapore	07.2000-06.2004

Present position

♦ Assistant Professor, Department of Computer Science,	starting 07.2019
The University of Hong Kong.	

♦ Senior Research Associate, Department of Computer Science,
The University of Hong Kong.

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Previous positions

♦ Wiener-Anspach Postdoctoral Researcher,
Université Libre de Bruxelles and University of Oxford.

Post-doctoral Researcher, National Quantum Information Centre of Gdańsk, 10.2012-10.2016 University of Gdańsk.

Awards

♦ CQT PhD scholarship at the Centre for Quantum Technologies, National University of Singapore (2011).

Previous research work

The co-PI is recognized for his work in device-independent randomness amplification and the foundations of quantum mechanics. He has 32 refereed publications in these areas, including 10 papers in Physical Review Letters and 3 in Nature Communications. He has given 4 invited talks and his work on randomness amplification was recognized as a contributed talk at QIP, the premier conference in Quantum Information.

Representative publications

- ♦ **R. Ramanathan**, D. Goyeneche, S. Muhammad, P. Mironowicz, M. Grunfeld, M. Bourennane and P. Horodecki, *Steering is an essential feature of non-locality in quantum theory*, Nature Communications **9**, 4244 (2018).
- ⋄ F. G. S. L. Brandao, R. Ramanathan, A. Grudka, K. Horodecki, M. Horodecki, P. Horodecki, T. Szarek, H. Wojewodka, *Realistic noise-tolerant randomness amplification using finite number of devices*. Nature Communications 7, 11345 (2016).
- ♦ **R. Ramanathan**, J. Tuziemski, M. Horodecki and P. Horodecki, *No Quantum Realization of Extremal No-Signaling Boxes*, Phys. Rev. Lett. **117**, 050401 (2016).
- ♦ **R. Ramanathan** and P. Horodecki, *Necessary and Sufficient Condition for State-Independent Contextual Measurement Scenarios*, Phys. Rev. Lett. **112**, 040404 (2014).

Article Reviewer: Nature Communications, Physical Review X, Physical Review A, New Journal of Physics, Proceedings of the Royal Society A, Quantum Information and Computation, Physics Letters A, Entropy.