



For immediate release
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2025 Kirkman Medal awarded to Chi Hoi (Kyle) Yip

Kirkman Medals recognize excellent research by Fellows or Associate Fellows of the ICA early in their research career, as evidenced by an **excellent body of published research**.

Dr. Chi Hoi (Kyle) Yip has made outstanding contributions across arithmetic combinatorics, extremal combinatorics, finite geometry and analytic number theory. He obtained sharp results on Hilbert cubes, large-sieve inverse problems and decomposition phenomena in both the integers and finite fields, which significantly extend classical theorems. Dr. Yip obtained the first exact clique numbers for infinite families of generalized Paley graphs, and he proved general Erdős-Ko-Rado type theorems using innovative combinations of geometric and combinatorial methods. In Euclidean Ramsey theory, he resolved notable open cases concerning monochromatic arithmetic progressions and established general constructions avoiding short progressions by building new connections with Diophantine approximation and metric number theory.

Dr. Yip has authored or co-authored 55 publications and preprints, including many single-authored papers published in leading journals. He integrates ideas and techniques from disparate areas in truly original ways to resolve long-standing open problems in both combinatorics and number theory. His research displays a remarkable combination of breadth and depth, and his academic achievements have been recognized by numerous awards, scholarships and fellowships.

The Institute of Combinatorics and its Applications is an international scholarly society that was founded in 1990 by Ralph Stanton; the ICA was established for the purpose of promoting the development of combinatorics and of encouraging publications and conferences in combinatorics and its applications.