

2021 Kirkman Medal awarded to Yujie Gu

Yujie Gu has made significant contributions to combinatorial methods for information security, coding theory, and information theory. Her notable research achievements include combinatorial traitor tracing, zero-error two-way communications, private information retrieval and compressed sensing, by ingeniously utilizing techniques in extremal and additive combinatorics, graph theory, algebraic methods, probabilistic methods, and information theory. The breadth and depth of her research are quite remarkable.

Dr. Gu is highly productive with fruitful publications in prestigious mathematics and information theory journals and conferences. She is good at establishing intriguing and unexpected relationships between discrete mathematics and information science problems, and further opening up new promising research avenues. She is an outstanding young researcher with intelligence, diligence, strong academic background, and great potential on research work.