THE UNIVERSITY OF **CHICAGO** | **DEPARTMENT OF STATISTICS**

Statistics Colloquium

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"A tour in combinatorial statistics: from shotgun assembly to graph matching"

TUESDAY, March 21, 2023, at 4:30 PM
Jones 303, 5747 S. Ellis Avenue
Refreshments before the seminar at 4:00 PM in Jones 303.

ABSTRACT

In this talk, I will start with overviewing the general flavor for the topic of "combinatorial statistics", and then I will describe some recent progress on shotgun assembling problems as well as random graph matching problems. Through these examples, I wish to emphasize the point that this set of problems requires joint efforts from statisticians, probabilists, computer scientists and researchers from applied sciences. The talk is based on recent joint works in various combinations with undergraduate students Hang Du, Haoyu Liu and Zhangsong Li, as well as graduate students Shuyang Gong, Heng Ma and Yiyang Jiang from Peking University.