



The University of Chicago
Department of Statistics
SUMMER Seminar Series

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Geometric and Topological Methods for Data Science

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110 Eckhart Hall, 5734 S. University Avenue

ABSTRACT

In this talk we will discuss some new perspectives from geometry and topology on data analysis with complex networks. Two particular examples will be provided, with one from combinatorial Hodge Theory in applications of preference aggregation on networks; and the other from classical Morse theory in explorations of energy landscapes of complex networks, from social networks to transition networks in protein folding. Such examples is perhaps just on the fringe of a long road toward mathematics for data science.

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