



The University of Chicago
Department of Statistics
Seminar Series

ANDREW C. THOMAS
Department of Statistics
Harvard University

Uncertainties in Network Analysis Due to the Thresholding Problem

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ABSTRACT

In order to conduct analyses of systems where connections between individuals take on a range of values, a common technique is to dichotomize the data according to their positions with respect to a threshold value. However, there are two issues to consider: how the results of the analysis depend on the choice of threshold, and what role the presence of noise has on a system with respect to a fixed threshold value. I demonstrate consequences of each of these problems with respect to a set of commonly used generative network models.