



THE UNIVERSITY OF CHICAGO

Department of Statistics

STATISTICS COLLOQUIUM

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Analyzing Spatial Data Locally

MONDAY, April 3, 2017, at 4:00 PM
Eckhart 133, 5734 S. University Avenue
Refreshments before the seminar at 3:30PM in Jones 111

ABSTRACT

Stationarity is a common assumption in spatial models. The justification is often that stationarity is a reasonable approximation if data are collected in a sufficiently small region. In this talk we first review various known approaches for modeling nonstationary spatial data. We then examine the notion of local stationarity in more detail. In particular, we will consider a general nonstationary spatial model whose covariance behaves like the Matern covariance locally and a corresponding inference approach for the model based on dense gridded data.