



THE UNIVERSITY OF CHICAGO

Department of Statistics

MASTER'S THESIS PRESENTATION

SANGGI KIM

Department of Statistics
The University of Chicago

Identifying Warming Trend Patterns in Central England
Temperature Data

WEDNESDAY, April 22, 2015, at 8:30 AM
Eckhart 117, 5734 S. University Avenue

ABSTRACT

This discussion explores the warming trends in the Central England Temperature (CET) data from 1659 to 2013 by using structural time-series methods and techniques. First, I analyzed the CET record using general methodology such as Moving Average (MA) and Smoothed Periodogram. Later on, I defined the new error structure so that the errors could be dependent. Given the new assumption, I suggested an optimized bandwidth and constructed simultaneous confidence bands (SCBs). The CET record has a 90-year cycle and a cubic model is appropriate for the CET record.

For information about building access for persons with disabilities, please contact Laura Rigazzi at 773.702-0541 or send an email to lrigazzi@galton.uchicago.edu. If you wish to subscribe to our email list, please visit the following web site: <https://lists.uchicago.edu/web/arc/statseminars>.