



THE UNIVERSITY OF  
**CHICAGO**

Department of Statistics

MASTER'S THESIS PRESENTATION

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JOONSUK KANG

Department of Statistics  
The University of Chicago

Will Temperature Variability Increase?

Monday, June 11, 2018, at 10:30 AM  
ROOM, 5747 S. Ellis Avenue

ABSTRACT

It is not likely that temperature variability of the United States will increase in the future. Using a first-order autoregressive model with monthly periodic and time-varying mean and volatility structure, I estimated changes in monthly temperature variability. The analysis on forty ensemble runs from Community Earth System Model (CESM) Large Ensemble Project shows that winter months in Northern areas are expected to experience decreased variability, while other months and areas would have an essentially constant level of temperature variability.