

FLORIDA STATE UNIVERSITY  
COLLEGE OF ARTS AND SCIENCES

STATISTICAL ANALYSIS FOR COMPLEX DATA BY GENERALIZED INDIRECT  
DEPENDENCY LEARNING AND SLACK EMPIRICAL LIKELIHOOD

By  
PENG ZHAO

A Dissertation submitted to the  
Department of Statistics  
in partial fulfillment of the  
requirements for the degree of  
Doctor of Philosophy

2020

Peng Zhao defended this dissertation on July 7, 2020.  
The members of the supervisory committee were:

Yiyuan She  
Professor Directing Dissertation

Zhenghao Zhang  
University Representative

Fred W. Huffer  
Committee Member

Jonathan R. Bradley  
Committee Member

The Graduate School has verified and approved the above-named committee members, and certifies that the dissertation has been approved in accordance with university requirements.