FLORIDA STATE UNIVERSITY COLLEGE OF ARTS AND SCIENCES

INCORPORATING OUT-OF-SAMPLE ERROR DIRECTLY INTO BAYESIAN HIERARCHICAL MODELS THROUGH CONSTRAINTS AND SUBSAMPLING

By

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

2023

Qingying Zong defended this dissertation on April 10, 2023. The members of the supervisory committee were:	
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