## FLORIDA STATE UNIVERSITY COLLEGE OF ARTS AND SCIENCES

## EXTRACTION AND ANALYSIS OF 2D AND 3D DATA FROM IMAGES AND OF PHYLOGENETIC TREE DATA FROM RNA AND DNA SEQUENCES AND CONSISTENCY OF SPHERICAL DEPTH ON OBJECT SPACES

By

## **SEUNGHEE CHOI**

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

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