Notice of the Final Oral Examination
for the Degree of Master of Arts

of

KIMBERLEE GRAHAM-KNIGHT

BMus (University of British Columbia, 2004)

“Adaptive Music Technology Using the Kinect”

Interdisciplinary Studies

Friday, April 20th, 2018
10:30 a.m.
MacLaurin Building
Room B117

Supervisory Committee:
Dr. Andrew Schloss, School of Music, University of Victoria (Supervisor)
Dr. Peter Driessen, Department of Electrical and Computer Engineering, UVic (Co-Supervisor)
Dr. George Tzanetakis, Department of Computer Science, UVic (Outside Member)

External Examiner:
Dr. Nigel Livingston, School of Public Health and Social Policy, UVic

Chair of Oral Examination:
Dr. Kenneth Stewart, Department of Economics, UVic

Dr. Stephen Evans, Acting Dean, Faculty of Graduate Studies
Abstract

The field of Adaptive Music Technology is rapidly expanding and evolving. While there have been a number of theses and dissertations devoted to the study of new computer music instrument design for persons with disabilities, there is as yet no comprehensive study of all of the instruments that have been developed, along with recommendations for how to develop future musical instruments. In this thesis, a comprehensive literature review of previous instruments developed is presented, along with personal interviews of developers where literature has not yet been published about a given instrument. Then recommendations for future development of instruments based on this information are presented. Finally, a case study of the development of one such instrument is undertaken using the Microsoft Kinect, and observations and conclusions based on this research are drawn.