

THE THESIS TITLE

WILL GO HERE WHEN YOU KNOW IT:

A MEANINGFUL AND SUCCINCT PHRASE

YOUR NAME HERE

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS OF  
THE DEGREE OF DOCTOR OF PHILOSOPHY  
IN MEDIA AND ARTS TECHNOLOGIES

SCHOOL OF ELECTRONIC ENGINEERING AND COMPUTER SCIENCE  
QUEEN MARY UNIVERSITY OF LONDON



# *Abstract*

Type your abstract text here

Copyright © 2018 Your Name Here

Submitted in partial fulfillment of the requirements of the Degree of Doctor of Philosophy  
in Media and Arts Technologies

PUBLISHED BY SCHOOL OF ELECTRONIC ENGINEERING AND COMPUTER SCIENCE  
QUEEN MARY UNIVERSITY OF LONDON

TUFTE-LATEX.GITHUB.IO/TUFTE-LATEX/

Licensed under the Apache License, Version 2.0 (the “License”); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.apache.org/licenses/LICENSE-2.0>. Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an “AS IS” BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

*First printing, August 2018*

## *Statement of Originality*

I, [NAME], CONFIRM that the research included within this thesis is my own work or that where it has been carried out in collaboration with, or supported by others, that this is duly acknowledged below and my contribution indicated. Previously published material is also acknowledged below.

I attest that I have exercised reasonable care to ensure that the work is original, and does not to the best of my knowledge break any UK law, infringe any third party's copyright or other Intellectual Property Right, or contain any confidential material.

I accept that the College has the right to use plagiarism detection software to check the electronic version of the thesis.

I confirm that this thesis has not been previously submitted for the award of a degree by this or any other university.

The copyright of this thesis rests with the author and no quotation from it or information derived from it may be published without the prior written consent of the author.

Signature: **YOUR SIGNATURE**

Date: Month Day, Year

Details of collaboration and publications can be found in Section XX.



*Dedicated to someone.*





# *Acknowledgements*

I would like to thank everyone in the **C4DM** at QMUL, who... In particular...

Acknowledge communities, thank friends, makers of tools  
(OpenSource and other)...

Mention your loved ones... and your pets.



# Contents

1	<i>Introduction</i>	19
1.1	<i>Motivation</i>	19
1.2	<i>Aim</i>	19
1.3	<i>Thesis structure</i>	20
1.4	<i>Contributions</i>	20
1.5	<i>Associated publications</i>	21
2	<i>Background</i>	23
3	<i>Evaluation</i>	25
4	<i>Conclusions and further work</i>	27
4.1	<i>Summary of contributions</i>	27
4.2	<i>Further work</i>	27



## *List of Figures*



## *List of Tables*





## *List of abbreviations*

ANN	All Nearest Neighbours
ANSI	American National Standards Institute
ASR	Automatic Speech Recognition
CART	Classification And Regression Trees
DA	Discourse Analysis
DFT	Discrete Fourier Transform
FFT	Fast Fourier Transform
FM	Frequency Modulation
GMM	Gaussian Mixture Model
HCI	Human-Computer Interaction
HMM	Hidden Markov Model
NIME	New Interfaces for Musical Expression
NN	Nearest-Neighbour



# *1*

## *Introduction*

### *1.1 Motivation*

### *1.2 Aim*

### 1.3 *Thesis structure*

*Chapter 2*

*Chapter 3*

*Chapter 4*

### 1.4 *Contributions*

Contributions of this thesis are:

- Chapter 3: something.

### 1.5 *Associated publications*

Portions of the work detailed in this thesis have been presented in national and international scholarly publications, as follows (journal publications highlighted in bold):

- Chapter 2: Section xxx on xxx was published as a technical report
- Chapter xxx: An early version of some of the work was presented at the International Conference on Thing
- Chapter xxx: Accepted for publication in the **Journal of Thing Research**
- Chapter xxx: The work presented in sections of this chapter was presented at a meeting of the Thing Network



2

*Background*





3

*Evaluation*



## 4

# *Conclusions and further work*

*4.1 Summary of contributions*

*4.2 Further work*

