## Contents

1 Introduction — 1
   1.1 Research question — 1
   1.2 Theoretical framework — 3
   1.3 General hypothesis — 5
   1.4 Assumptions in need of verification and specific hypotheses — 7
   1.5 Goals — 8

2 Informal outline — 9

3 Data and previous accounts — 16
   3.1 An overview of vowel chain shifts in English — 16
      3.1.1 The Great Vowel Shift — 16
      3.1.2 The Short Vowel Shift — 23
      3.1.3 Contemporary vowel shifts — 24
   3.2 Study 1: English has become a vowel shifting language — 25
      3.2.1 Charting vocalic changes — 26
      3.2.2 Analysis — 28
   3.3 The co-evolution of rhythm and vowels — 31
      3.3.1 The reduction and loss of unstressed vowels — 31
      3.3.2 Rhythm-based typology: on stress-timing and syllable-timing — 34
      3.3.3 Typological perspective on vowel shifting — 37
      3.3.4 A unified perspective — 40
   3.4 Previous approaches to sound change (and vowel shifting) — 42
      3.4.1 The Neogrammarians — 43
      3.4.2 The structuralist/functionalist approach — 49
      3.4.3 Generative phonology — 55
      3.4.4 Exemplar-based phonology — 58
      3.4.5 Summary — 62

4 Theoretical framework — 64
   4.1 Evolutionary linguistics — 64
   4.2 Optimality Theory — 86
      4.2.1 Introduction — 86
      4.2.2 The architecture of Optimality Theory — 87
      4.2.3 Language change in Optimality Theory — 103
   4.3 Formalizing evolutionary linguistics in Optimality Theory — 109