

## TABLE OF CONTENTS

|                                                       | Page      |
|-------------------------------------------------------|-----------|
| ABSTRACT (THAI) .....                                 | I         |
| ABSTRACT (ENGLISH) .....                              | III       |
| ACKNOWLEDGEMENTS .....                                | V         |
| TABLE OF CONTENTS .....                               | VI        |
| LIST OF TABLES .....                                  | XI        |
| LIST OF FIGURES .....                                 | XIII      |
| LIST OF ABBREVIATIONS .....                           | XIV       |
| <b>CHAPTER</b>                                        |           |
| <b>1. INTRODUCTION .....</b>                          | <b>15</b> |
| 1.1 Rationale and Background of the Study .....       | 15        |
| 1.2 Purposes of the Study .....                       | 17        |
| 1.3 Research Questions .....                          | 18        |
| 1.4 Significance of the Study .....                   | 19        |
| 1.4.1 Theoretical Significance of the Study .....     | 19        |
| 1.4.2 Methodological Significance of the Study .....  | 19        |
| 1.4.3 Contextual Significance of the Study .....      | 20        |
| 1.4.4 Pedagogical Significance of the Study .....     | 20        |
| 1.5 Definition of Terms .....                         | 20        |
| 1.5.1 Language Mindset .....                          | 20        |
| 1.5.2 Foreign Language Speaking Mindset .....         | 21        |
| 1.5.3 Mindset Meaning System .....                    | 22        |
| 1.5.4 Language Mindset Meaning System .....           | 22        |
| 1.5.5 Emotional Outcomes of Attribution .....         | 23        |
| 1.5.6 Motivational Process-Oriented Goals .....       | 23        |
| 1.5.7 Proactive Responses in Failure Situations ..... | 23        |
| 1.5.8 Speaking Performance .....                      | 23        |
| 1.5.9 Thai Undergraduate Students .....               | 23        |
| 1.6 Scope of the Study .....                          | 24        |
| 1.7 Expected Benefits .....                           | 24        |
| 1.8 Summary of the Chapter .....                      | 24        |
| <b>2. LITERATURE REVIEW .....</b>                     | <b>25</b> |
| 2.1 Mindset and Meaning System .....                  | 25        |

## TABLE OF CONTENTS (Cont.)

|                                                                                                              | Page      |
|--------------------------------------------------------------------------------------------------------------|-----------|
| 2.1.1 The Characteristics of Mindset Construct .....                                                         | 28        |
| 2.1.2 Complexity of Mindset.....                                                                             | 29        |
| 2.2 Language Mindset.....                                                                                    | 30        |
| 2.2.1 Primary Investigations of Mindset in Second Language Acquisition .....                                 | 30        |
| 2.2.2 The Current Conceptualization of the Language Mindset .....                                            | 32        |
| 2.2.3 Language Mindset and Motivation .....                                                                  | 34        |
| 2.2.4 Language Mindset Meaning System .....                                                                  | 35        |
| 2.2.5 The Influence of Context on Language Mindset.....                                                      | 41        |
| 2.2.6 Cultural Influence on Language Mindset .....                                                           | 42        |
| 2.3 Domain-specific Language Mindset.....                                                                    | 44        |
| 2.3.1 Domain-specific Language Mindset .....                                                                 | 44        |
| 2.3.2 Foreign Language Speaking Mindset .....                                                                | 46        |
| 2.4 Research Gaps.....                                                                                       | 47        |
| 2.4.1 Theoretical Gaps .....                                                                                 | 48        |
| 2.4.2 Methodological Gaps.....                                                                               | 50        |
| 2.4.3 Contextual Gaps.....                                                                                   | 55        |
| 2.4.4 Pedagogical Gaps .....                                                                                 | 56        |
| 2.5 Conceptual Framework.....                                                                                | 58        |
| 2.6 Summary of the Chapter .....                                                                             | 59        |
| <b>3. LITERATURE REVIEW .....</b>                                                                            | <b>60</b> |
| 3.1 Flow Chart of Methodology .....                                                                          | 60        |
| 3.2 Research Design .....                                                                                    | 61        |
| 3.2.1 Stage 1 Language Mindset and Foreign Language Speaking Mindset<br>Surveys .....                        | 62        |
| 3.2.2 Stage 2 Language Mindset Intervention .....                                                            | 62        |
| 3.2.3 Stage 3 Foreign Language Speaking Mindset Survey, Q-Methodology,<br>and Semi-Structured Interview..... | 63        |
| 3.3 Research Setting and Participants .....                                                                  | 64        |
| 3.3.1 Research Setting.....                                                                                  | 64        |
| 3.3.2 Research Participants.....                                                                             | 64        |
| 3.3.3 Sampling Methods and Number of the Participants .....                                                  | 65        |
| 3.3.3.1 Stage 1 Language Mindset and Foreign Language Speaking<br>Mindset Surveys.....                       | 65        |
| 3.3.3.2 Stage 2 Language Mindset Intervention.....                                                           | 66        |

## TABLE OF CONTENTS (Cont.)

|                                                                                                                                                             | Page |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 3.3.3.3 Stage 3 Foreign Language Speaking Mindset Survey, Q-Methodology, and Semi-Structured Interview.....                                                 | 67   |
| 3.4 Research Instruments .....                                                                                                                              | 68   |
| 3.4.1 Language Mindset Inventory (LMI).....                                                                                                                 | 68   |
| 3.4.2 Foreign Language Speaking Mindset Inventory (FLSMI).....                                                                                              | 70   |
| 3.4.2.1 The validation of Foreign Language Speaking Mindset Inventory .....                                                                                 | 77   |
| 3.4.2.2 Reliability of the Foreign Language Speaking Mindset Inventory items.....                                                                           | 78   |
| 3.4.2.3 Correlation of the items in the Foreign Language Speaking Mindset Inventory .....                                                                   | 78   |
| 3.4.2.4 Technical aspects of the survey .....                                                                                                               | 79   |
| 3.4.3 Language Mindset Toolkit .....                                                                                                                        | 80   |
| 3.4.4 Guided Journals.....                                                                                                                                  | 82   |
| 3.4.5 Speaking Test .....                                                                                                                                   | 82   |
| 3.4.6 Foreign Language Speaking Mindset Inventory (FLSMI).....                                                                                              | 83   |
| 3.4.7 Q-set .....                                                                                                                                           | 83   |
| 3.4.8 Semi-structured Interview .....                                                                                                                       | 84   |
| 3.5 Data Collection .....                                                                                                                                   | 85   |
| 3.5.1 Stage 1 Language Mindset Survey and Foreign Language Speaking Mindset Survey .....                                                                    | 85   |
| 3.5.2 Stage 2 Language Mindset Intervention .....                                                                                                           | 86   |
| 3.5.3 Stage 3 Foreign Language Speaking Mindset Survey and Semi-structured Interview.....                                                                   | 87   |
| 3.6 Data Analysis.....                                                                                                                                      | 87   |
| 3.6.1 Research Question One: What are the language mindset and foreign language speaking mindset of Thai undergraduate students?.....                       | 87   |
| 3.6.2 Research Question Two: What are the factors related to foreign language speaking mindset among Thai undergraduate students? .....                     | 87   |
| 3.6.3 Research Question Three: Is there a significant relationship between and among mindsets and speaking performance of Thai undergraduate students?..... | 87   |



## TABLE OF CONTENTS (Cont.)

|                                                                                                                                                                                             | Page      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 3.6.4 Research Question Four: Does the foreign language speaking mindset of Thai undergraduate students undergo any changes over time, and if so, what is the nature of such changes? ..... | 88        |
| 3.7 Implications from the Pilot Study .....                                                                                                                                                 | 88        |
| 3.8 Summary of the Chapter .....                                                                                                                                                            | 90        |
| <b>4. RESULTS OF THE STUDY .....</b>                                                                                                                                                        | <b>91</b> |
| 4.1 What are the Language Mindset and Foreign Language Speaking Mindset of Thai Undergraduate Students? .....                                                                               | 92        |
| 4.2 What are the Factors Related to Foreign Language Speaking Mindset Among Thai Undergraduate Students .....                                                                               | 95        |
| 4.2.1 Results from the Foreign Language Speaking Mindset Inventory .....                                                                                                                    | 95        |
| 4.2.1.1 Results of Exploratory Factor Analysis .....                                                                                                                                        | 95        |
| 4.3 What are the relationships among language mindset, foreign language speaking mindset, and speaking performance of Thai undergraduate students? .....                                    | 98        |
| 4.3.1 Relationship of Language Mindset and Foreign Language Speaking Mindset (Stage 1) .....                                                                                                | 98        |
| 4.3.2 The Relationship Between and Among Mindsets and Speaking Performance of Thai Undergraduate Students (Stage 2) .....                                                                   | 99        |
| 4.3.3 The Influence of Foreign Language Speaking Mindset on Speaking Performance of Thai Undergraduate Students (Stage 2) .....                                                             | 101       |
| 4.3.3.1 Language Mindset and Its Role in Foreign Language Learning and Speaking .....                                                                                                       | 101       |
| 4.3.3.2 Effort and Its Role in Foreign Language Learning and Speaking .....                                                                                                                 | 103       |
| 4.3.3.3 Attribution of Failures in Foreign Language Speaking .....                                                                                                                          | 104       |
| 4.3.3.4 Achievement Goals and Behavior in the Classroom .....                                                                                                                               | 105       |
| 4.3.3.5 Interpretation of Failures and Mistakes and Emotional Experience .....                                                                                                              | 106       |
| 4.3.3.6 Self-Regulatory Tendencies and Perception of Feedback .....                                                                                                                         | 107       |
| 4.3.3.7 Emotional Experience Related to Foreign Language Speaking .....                                                                                                                     | 108       |
| 4.3.3.8 Students' Perception of Factors Influencing Foreign Language Speaking .....                                                                                                         | 111       |

## TABLE OF CONTENTS (Cont.)

|                                                                                                                                              | Page       |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 4.4 Does Foreign Language Speaking Mindset Among Thai Undergraduate Students Change Over Time, and if so, What is the Nature of this Change? |            |
| 112                                                                                                                                          |            |
| 4.4.1 The Results of the Language Mindset Intervention .....                                                                                 | 112        |
| 4.4.2 The Results of the Q-Methodology.....                                                                                                  | 115        |
| 4.4.3 The Results from the Semi-Structured Interview .....                                                                                   | 130        |
| 4.5 Summary of the Chapter .....                                                                                                             | 132        |
| <b>5. DISCUSSION .....</b>                                                                                                                   | <b>133</b> |
| 5.1 The Language Mindset and Foreign Language Speaking Mindset of Thai Undergraduate Students .....                                          | 133        |
| 5.2 The Factors Related to Foreign Language Speaking Mindset Among Thai Undergraduate Students .....                                         | 136        |
| 5.3 Relationship Between and Among Mindsets and Speaking Performance of Thai Undergraduate Students .....                                    | 137        |
| 5.4 Change of Foreign Language Speaking Mindset Over Time .....                                                                              | 139        |
| 5.5 Summary of the Chapter .....                                                                                                             | 142        |
| <b>6. CONCLUSIONS .....</b>                                                                                                                  | <b>143</b> |
| 6.1 Summary of the Findings .....                                                                                                            | 143        |
| 6.2 Implications of the Study.....                                                                                                           | 144        |
| 6.2.1 Theoretical Implications .....                                                                                                         | 144        |
| 6.2.2 Methodological Implications .....                                                                                                      | 146        |
| 6.2.3 Contextual Implications.....                                                                                                           | 147        |
| 6.2.4 Pedagogical Implications .....                                                                                                         | 148        |
| 6.3 Limitations.....                                                                                                                         | 149        |
| 6.4 Recommendations for Future Study .....                                                                                                   | 150        |
| <b>REFERENCES .....</b>                                                                                                                      | <b>151</b> |
| <b>APPENDICES .....</b>                                                                                                                      | <b>175</b> |
| <b>CURRICULUM VITAE .....</b>                                                                                                                | <b>210</b> |

## LIST OF TABLES

| Table                                                                                                                                       | Page |
|---------------------------------------------------------------------------------------------------------------------------------------------|------|
| 3.1 Research Design.....                                                                                                                    | 61   |
| 3.2 Demographic Information of the Participants in Stage 1 .....                                                                            | 65   |
| 3.3 Demographic Information of the Participants in Stage 2 .....                                                                            | 67   |
| 3.4 Demographic Information of the Participants in Stage 3 .....                                                                            | 68   |
| 3.5 The Technical Aspects of the Speaking Mindset Inventory .....                                                                           | 79   |
| 3.6 The Difficulties in Understanding the Survey Items.....                                                                                 | 79   |
| 3.7 Interpretation of 6-Point Likert Scale.....                                                                                             | 80   |
| 3.8 Video Sessions in Language Mindset Toolkit.....                                                                                         | 81   |
| 3.9 Rubric Scoring for Speaking Test.....                                                                                                   | 82   |
| 3.10 Summary of the Data Analysis.....                                                                                                      | 88   |
| 3.11 The Undergraduate Students' Foreign Language Speaking Mindset.....                                                                     | 89   |
| 4.1 Results of the Study.....                                                                                                               | 91   |
| 4.2 Language Mindset of Thai Undergraduate Students .....                                                                                   | 92   |
| 4.3 Foreign Language Speaking Mindset of Thai Undergraduate Students.....                                                                   | 93   |
| 4.4 KMO and Bartlett's Test of FLSMI 16 Items .....                                                                                         | 95   |
| 4.5 Rotated Component Matrix and Communalities .....                                                                                        | 96   |
| 4.6 Test of Normality (Stage 1) .....                                                                                                       | 98   |
| 4.7 Relationship of Language Mindset and Foreign Language Speaking Mindset .....                                                            | 98   |
| 4.8 Test of Normality (Stage 2) .....                                                                                                       | 99   |
| 4.9 The Descriptive Statistic of the Language Mindset, Foreign Language<br>Speaking Mindset, and Foreign Language Speaking Performance..... | 99   |
| 4.10 The Relationship of the Language Mindset, Foreign Language Speaking<br>Mindset, and Foreign Language Speaking Performance.....         | 100  |
| 4.11 Themes Derived from Guided Journals.....                                                                                               | 101  |
| 4.12 Foreign Language Speaking Mindset Before and After the Language Mindset<br>Intervention .....                                          | 112  |
| 4.13 Test of Normality of Foreign Language Speaking Mindset Before and After<br>the Intervention.....                                       | 113  |
| 4.14 Paired Samples T-Test of Foreign Language Speaking Mindset Between<br>Pre- and Post-Intervention .....                                 | 113  |
| 4.15 Test of Normality of Speaking Performance Before and After the Intervention ...                                                        | 115  |

## LIST OF TABLES (Cont.)

| Table                                                                                                 | Page |
|-------------------------------------------------------------------------------------------------------|------|
| 4.16 Wilcoxon Signed-rank Test of Speaking Performance Between Pre- and<br>Post-Intervention.....     | 115  |
| 4.17 Factor Loadings of 19 Participants .....                                                         | 116  |
| 4.18 Loadings with Defining Sorts Flagged .....                                                       | 117  |
| 4.20 Perspective A: Effort and Practice as a Key to Improve Foreign Language<br>Speaking Ability..... | 119  |
| 4.21 Distinguishing Statements for Perspective A .....                                                | 121  |
| 4.22 Perspective B: Self-regulatory Tendencies from Appraisal of Talent and Effort ...                | 123  |
| 4.23 Distinguishing Statements for Perspective B .....                                                | 124  |
| 4.24 Perspective C: Discomfort and Communication Apprehension in Classroom<br>Setting.....            | 126  |
| 4.25 Distinguishing Statements for Perspective C .....                                                | 128  |

## LIST OF FIGURES

| Figure                                                                                                          | Page |
|-----------------------------------------------------------------------------------------------------------------|------|
| 2.1 Mindset-Goals-Responses Model (Lou & Noels 2017: 217).....                                                  | 36   |
| 2.2 Language Mindset as a Core of Meaning System.....                                                           | 38   |
| 2.3 Conceptual Framework of L2 Speaking Mindset of Thai Undergraduate Students..                                | 58   |
| 3.1 Flow Chart of Methodolog.....                                                                               | 60   |
| 3.2 The Development Process of FLSMI.....                                                                       | 71   |
| 3.3 Data Collection.....                                                                                        | 85   |
| 4.1 Scree Plot of Component Extraction.....                                                                     | 96   |
| 4.2 Factors Affecting Foreign Language Speaking.....                                                            | 111  |
| 4.3 Eigenvalues of Factors .....                                                                                | 117  |
| 5.1 Thai Undergraduate Students' Language Mindset and Foreign Language<br>Speaking Mindset .....                | 135  |
| 5.2 Relationship between Language Mindset, Foreign Language Speaking<br>Mindset, and Speaking Performance ..... | 139  |
| 5.3 Change of Foreign Language Speaking Mindset After Intervention .....                                        | 140  |

## LIST OF ABBREVIATIONS

|       |                                             |
|-------|---------------------------------------------|
| EFA   | Exploratory Factor Analysis                 |
| EFL   | English as a Foreign Language               |
| FLSMI | Foreign Language Speaking Mindset Inventory |
| LMI   | Language Mindset Inventory                  |
| LMMS  | Language Mindset Meaning-Making System      |