Contents

Preface ix

1 On the Possible and the Probable in Language 1
- 1.1 Introduction 1
- 1.2 Possible human languages 1
  - 1.2.1 Formalists and functionalists on the notion 'possible human language' 1
  - 1.2.2 The problem of knowing what is possible 3
  - 1.2.3 Teaching 'impossible' grammars 6
  - 1.2.4 The problem of explaining what is possible 8
- 1.3 Probable and improbable human languages 15
- 1.4 Two methodological approaches to capturing typological generalizations 19
- 1.5 Conclusion 27

2 Parameterized Principles 28
- 2.1 Introduction 28
- 2.2 Early generative syntactic typology 28
  - 2.2.1 Syntactic typology and markedness theory 29
  - 2.2.2 Deep structure and typological consistency 31
  - 2.2.3 UG principles and the solution of typological problems 32
- 2.3 The Government-Binding program for capturing parametric variation 38
  - 2.3.1 Luigi Rizzi and the parameterization of Subjacency 39
  - 2.3.2 The Government-Binding program and typology 40
  - 2.3.3 Some examples of GB parameters 42
  - 2.3.4 Predicting the clustering of typological properties 44
  - 2.3.5 The typological implications of the core versus periphery distinction 47
  - 2.3.6 Markedness relations within core grammar and typological inconsistency 49
  - 2.3.7 Mark Baker's Parameter Hierarchy 50
  - 2.3.8 Constraints on possible parameters 53
- 2.4 Parameters and typology in the Minimalist Program 57
  - 2.4.1 Minimalist mechanisms and typology 58

2.4.2 Kayne's antisymmetric program and typology 63
2.4.3 Microparameters 67
2.4.4 Summary 68
2.5 Parameters, typology, and language acquisition 69
2.6 Parameters, typology, and language change 71
2.7 Conclusion 72

3 Parameters, Performance, and the Explanation of Typological Generalizations 73
3.1 Introduction 73
3.2 Against a parametric approach to grammar 76
3.2.1 The 'standard story' on the superiority of the parametric approach 76
3.2.2 The deficiencies of parameter-setting models 77
3.3 The irrelevance of typology for grammatical theory 103
3.3.1 Typologically and linguistically significant generalizations 105
3.3.2 Robust typological generalizations do not fall out from UG principles 106
3.3.3 Typological generalizations are not reliably D-structure generalizations 107
3.3.4 Simpler grammars are not necessarily more common grammars: The case of preposition-stranding 113
3.3.5 Typological generalizations and 'knowledge of language' 116
3.4 Hawkins's processing-based explanation of cross-linguistic variation 119
3.4.1 Grammar as a conventionalization of performance preferences 119
3.4.2 Efficiency and complexity in grammar 122
3.5 Conclusion 126

4 In Defense of the Saussurean View of Grammar 128
4.1 Introduction 128
4.2 Usage-based models of grammar 129
4.3 The appeal of usage-based models 130
4.4 Functional explanation is fully compatible with formal generative grammar 135
4.5 Connectionism and usage-based models of grammar 136
4.6 Full grammatical structure is cognitively represented 137
4.6.1 A typology-based argument for full argument structure 138
4.6.2 Matthew Dryer on the question of canonical word order 139
4.6.3 *Get* again 144
4.6.4 Ellipsis and full argument structure 145

4.6.5 Evidence against usage-based models from child speech 149
4.6.6 Evidence against usage-based models from little-used sentences and from introspective judgments 150
4.7 The mental grammar is only one of many systems that drive usage 152
4.8 Grammars are not tailor-made to serve language users' 'needs' 153
4.9 Pressure to reduce ambiguity is not an important factor in language 155
4.9.1 The reflexive–person generalization 156
4.9.2 Differential object marking 157
4.9.3 Subject–object ordering 158
4.9.4 Acceptable ambiguity in Modern Irish 159
4.9.5 Summary 160
4.10 Some arguments against stochastic grammars 160
4.11 Grammars are not fragile, fluid, and temporary 166
4.12 The evolutionary origins of grammar lie in conceptual structure, not in communication 167
4.12.1 The mainstream position on the evolution of language 167
4.12.2 A three-stage process in language evolution 169
4.13 Conclusion 172

5 The Locus of Functional Explanation 174
5.1 Introduction 174
5.2 Two views of the form–function interface 174
5.3 Some problems in deciding between atomistic and holistic functionalism 178
5.3.1 On the content of the claim that grammatical processes are linked to functional motivations 179
5.3.2 Atomistic functionalism and psycholinguistic experimentation 181
5.4 Language change as a testing ground for atomistic and holistic functionalism 182
5.4.1 Atomistic functionalism at the synchronic and diachronic level 183
5.4.2 Retention 184
5.4.3 Propagation 187
5.4.4 Innovation 188
5.5 Some further difficulties with atomistic functionalism 191
5.5.1 The overgeneralization of functionally motivated principles 192
5.5.2 Dysfunctional consequences of functionally motivated principles 192
5.5.3 The problem posed by competing motivations 195

5.6 More on Optimality Theory, functional explanation, and typology 196
5.6.1 Optimality-theoretic syntax 196
5.6.2 Standard OT sheds no light on typology 200
5.6.3 Functionally based Optimality Theory 204
5.6.4 The failure of functionally based Optimality Theory 212
5.6.5 Summary 225
5.7 Conclusion 225

Afterword 226
References 227
Index 259