

Statistical Analyses for Language Assessment

Lyle F. Bachman

Cambridge
Language
Assessment
Series

Series Editors **J. Charles Alderson & Lyle F. Bachman**

Contents

<i>Series Editor's Preface</i>	<i>page</i> ix
<i>Acknowledgements</i>	xiii
<i>Abbreviations</i>	xiv
Part I: Basic concepts and statistics	1
1 Basic concepts and terms	3
2 Describing test scores	41
3 Investigating relationships among different sets of test scores	78
Part II: Statistics for test analysis and improvement	117
4 Analyzing test tasks	119
5 Investigating reliability for norm-referenced tests	153
6 Investigating reliability for criterion-referenced tests	192
Part III: Statistics for test use	207
7 Stating hypotheses and making statistical inferences	209
8 Tests of statistical significance	229
9 Investigating validity	257
10 Reporting and interpreting test scores	294

viii *Contents*

<i>Bibliography</i>	323
<i>Appendix: Statistical tables</i>	330
Table A: Proportions of area under the standard normal curve	330
Table B: Critical values of <i>t</i>	336
Table C: Critical values of F	337
Table D: Critical values for the Pearson product-moment correlation coefficient	342
Table E: Critical values for the Spearman rank-order correlation coefficient	343
<i>Index</i>	344