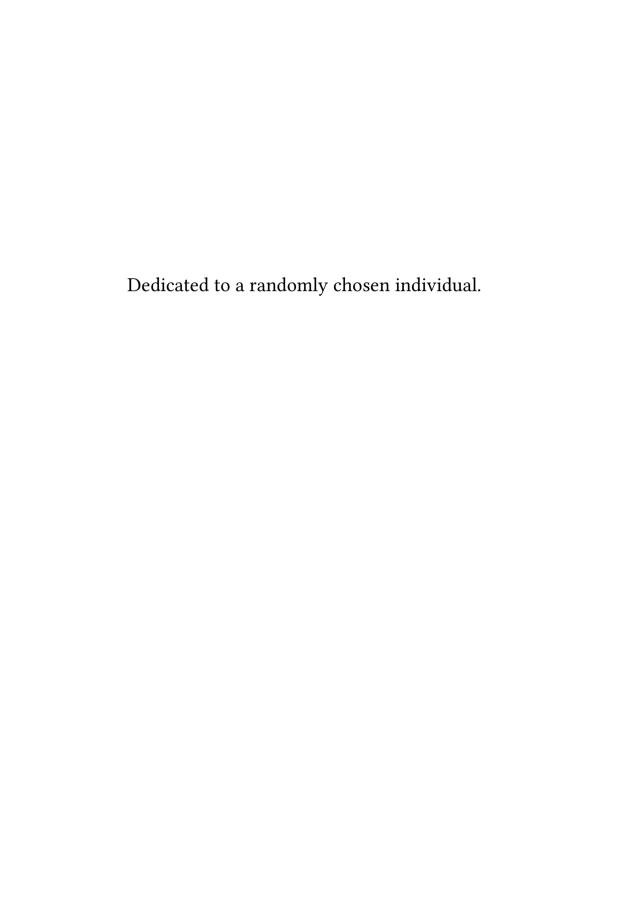
Statistical Modeling in Linguistics

A systematic introduction with instructions for using R

of September 4, 2017, 14:23

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Preface

Acknowledgments

Abbreviations

... ...

1 Science, data, and statistics

MacDonaldGardner2000



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In this book, code listing are displayed as inline blocks such as the following simple code which simulates t-tests under the null hypothesis in order to demonstrate that all p-values have equal probability under the null.

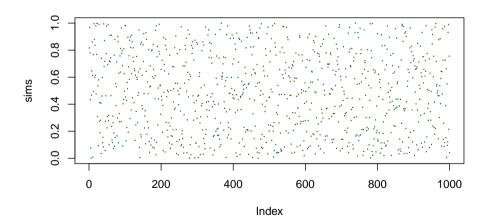


Figure 1.1: Scatterplot of p-values.

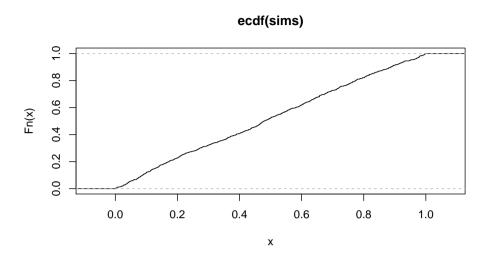


Figure 1.2: Empirical cumulative density distribution of p-values.

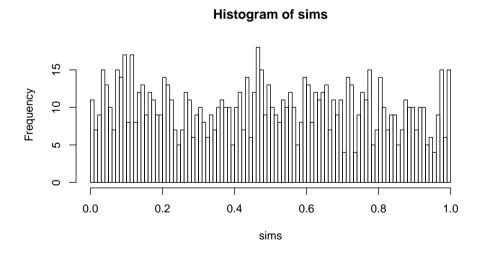


Figure 1.3: Histogram of p-values.

See Figure 1.2 for the cumulative density of p-values under the null in a series of 1000 t-tests. This was plotted using the following command:

plot(ecdf(sims))

2 Describing data

3 Visualising data

4 Tests

5 Models

6 Generalised models

7 Mixed models

8 Where to go from here?