

Friedman Test for Likert Data

Method: Friedman Test for Likert Data

Method type: hypothesis_test

Design: Within-respondent comparison of three related ordered social-response items.

Variables: famrel, freetime, goout

Inference scope: H0: the three related item distributions have equal location/rank profiles.

Formula: $Q = [12 / (n * k * (k + 1))] * \sum (R_j^2) - 3 * n * (k + 1)$; $W = Q / [n * (k - 1)]$.

Source rows: 649

Calculated metrics:

friedman_chi_square: 224.052445789208

df: 2

p_value: 2.22653521532496e-49

kendalls_w: 0.172613594598774

n_complete: 649

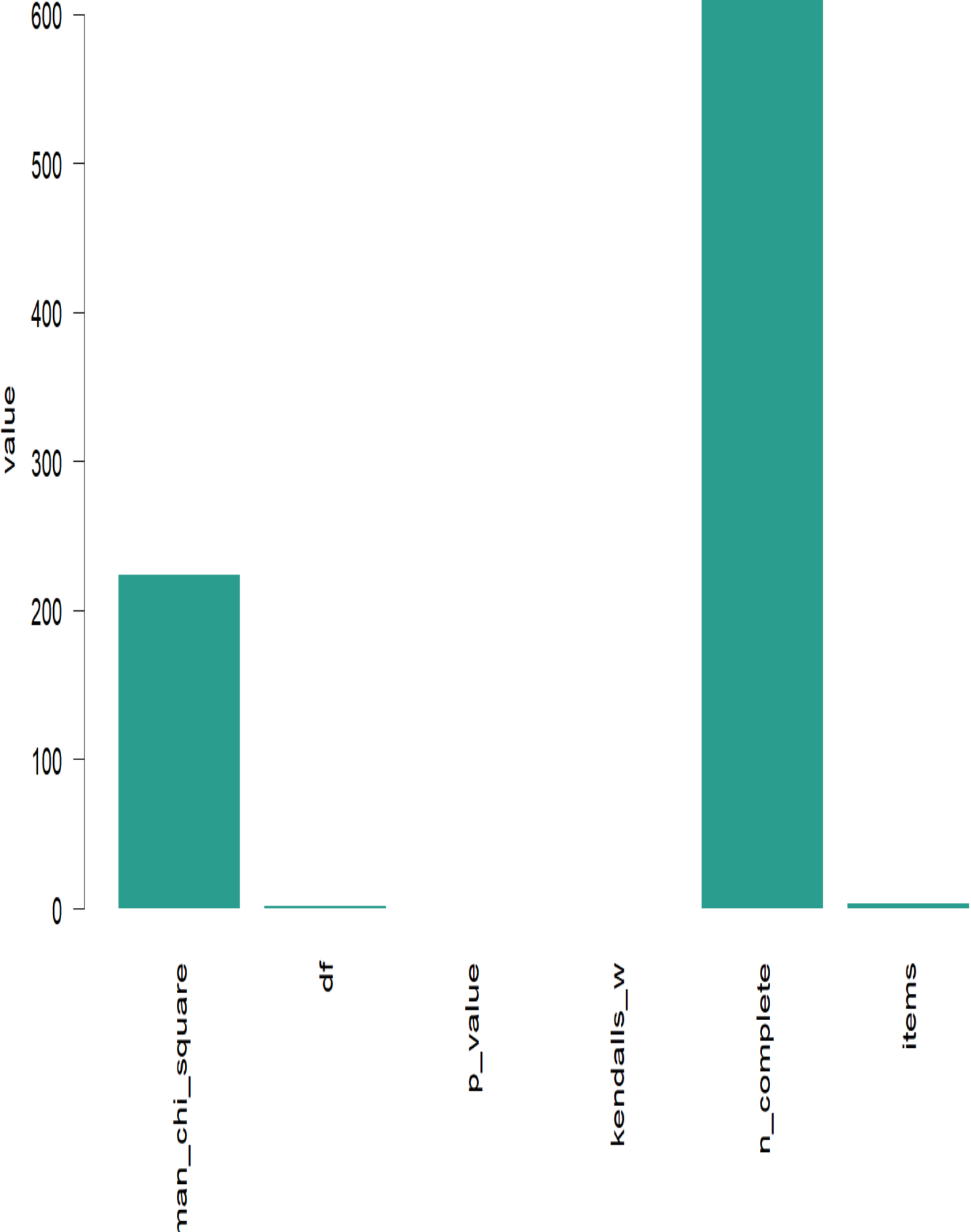
items: 3

Interpretation:

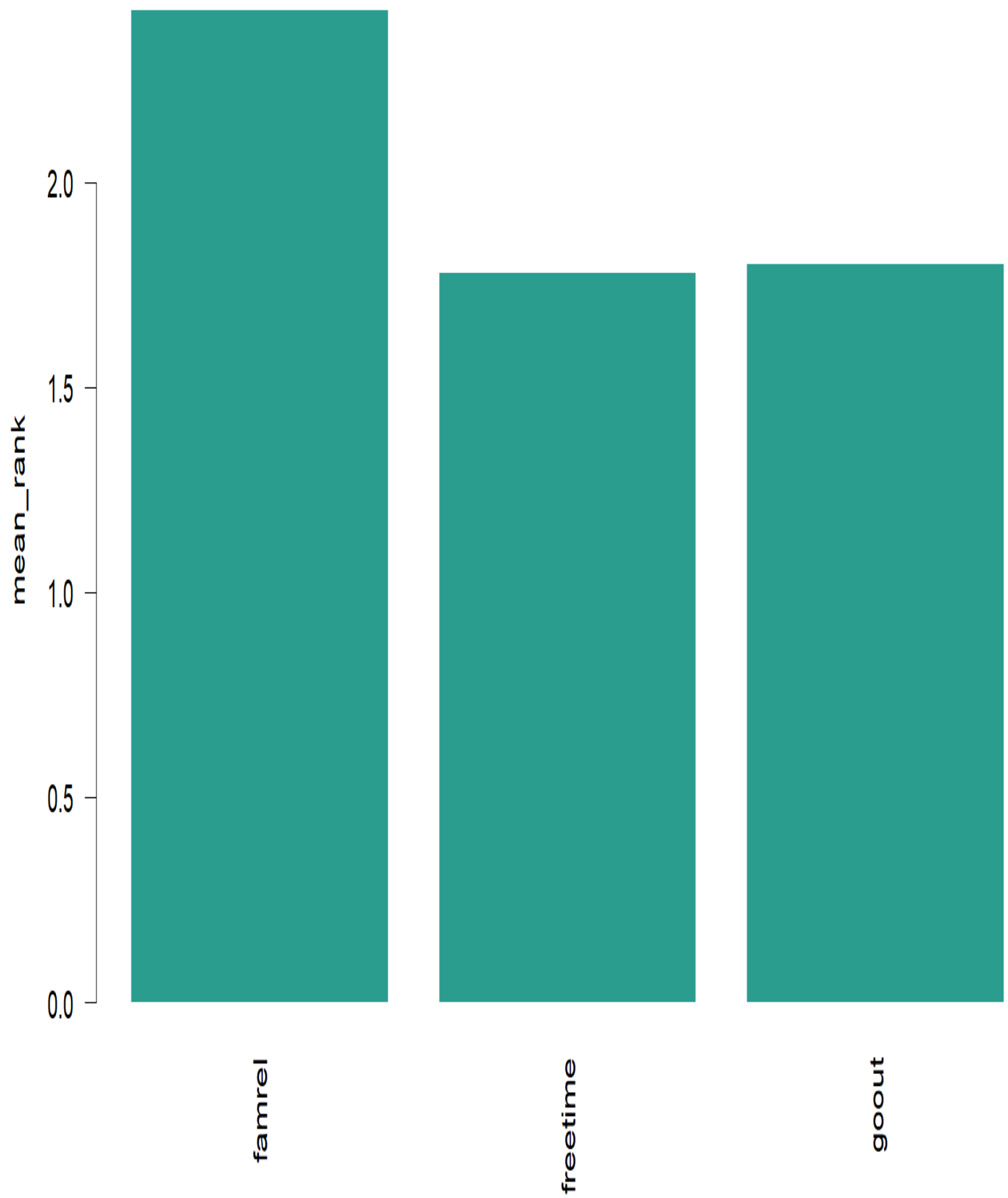
Responses are ranked within respondent.

Friedman chi-square 224.052445789208 Kendall W 0.172613594598774

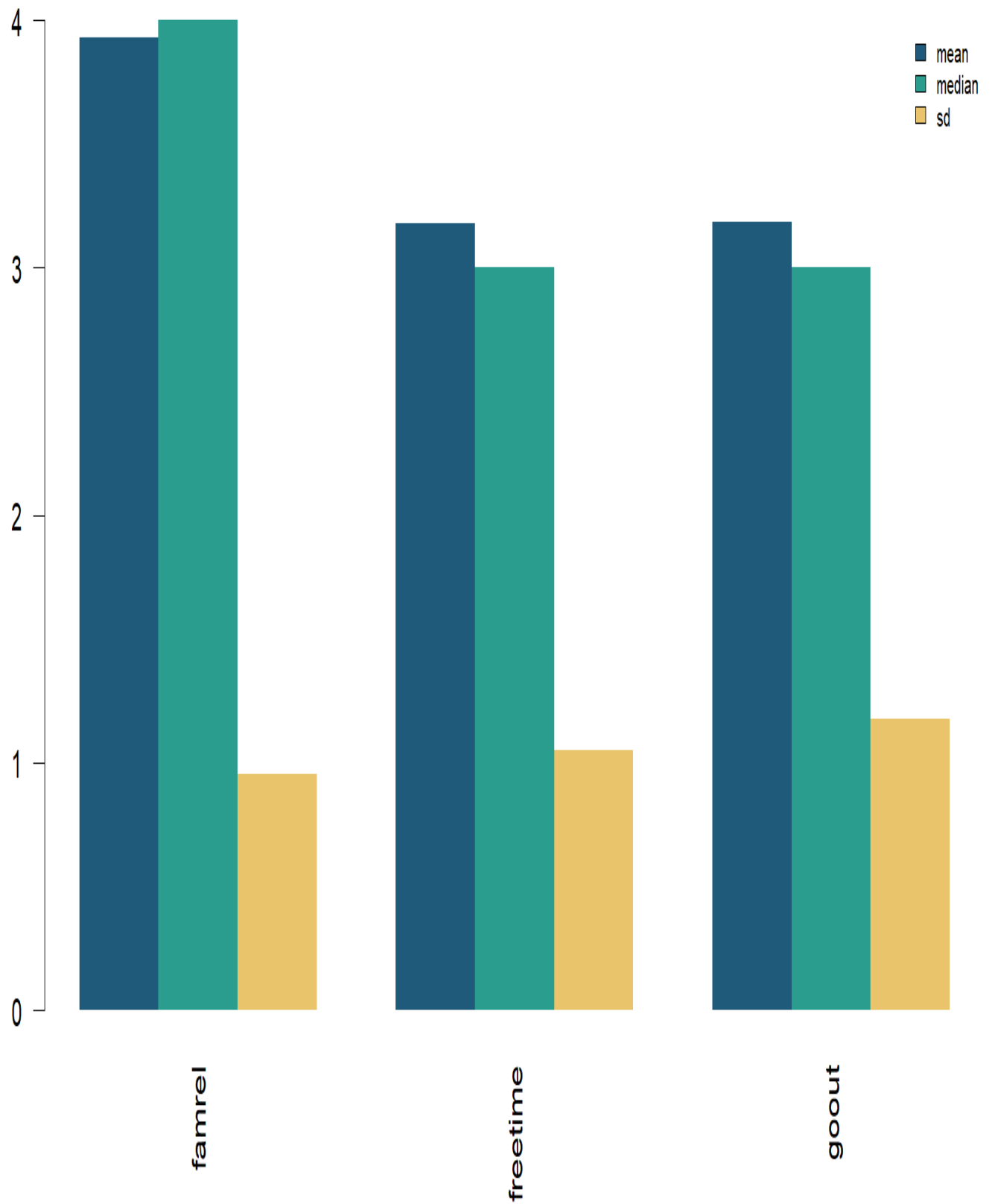
Friedman Test for Likert Data - primary metrics



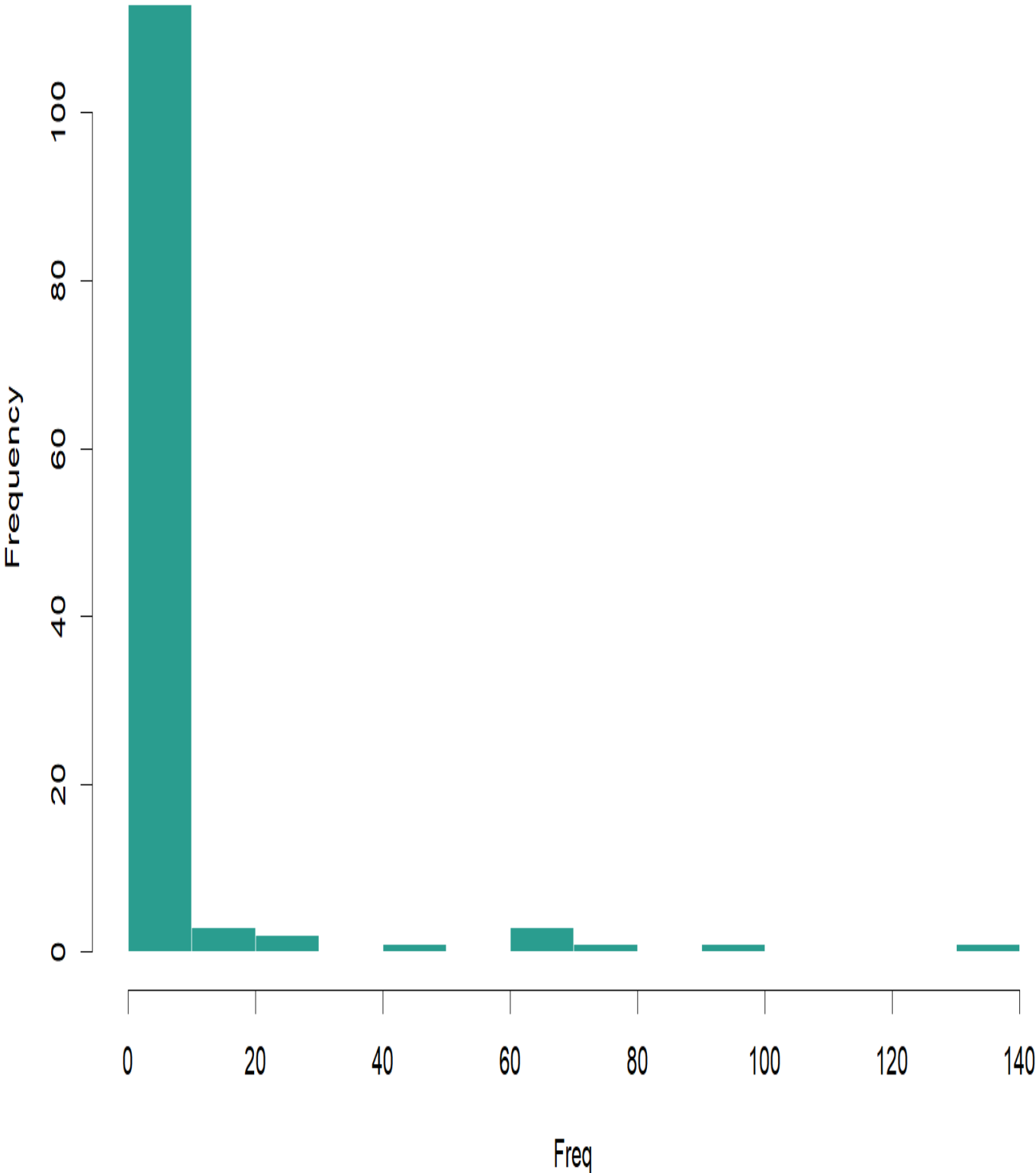
Friedman Test for Likert Data - mean ranks



Friedman Test for Likert Data - paired item summary



Friedman Test for Likert Data - rank pattern frequencies



Friedman Test for Likert Data verified results

