

Page's Ordered Alternatives Test

Test: Page's Ordered Alternatives Test

Design: Within-student ordered trend from G1 to G2 to G3.

Variables: G1, G2, G3 ordered occasions

Null hypothesis: There is no ordered increase across the three grade occasions.

Formula: $L = \sum_j j R_j$ for prespecified treatment order; the upper tail is evaluated under blockwise exchangeability.

Source rows: 649

Calculated metrics:

L _statistic: 8164

p_value: 8.45558625289801e-26

method: asymptotic

n_blocks: 649

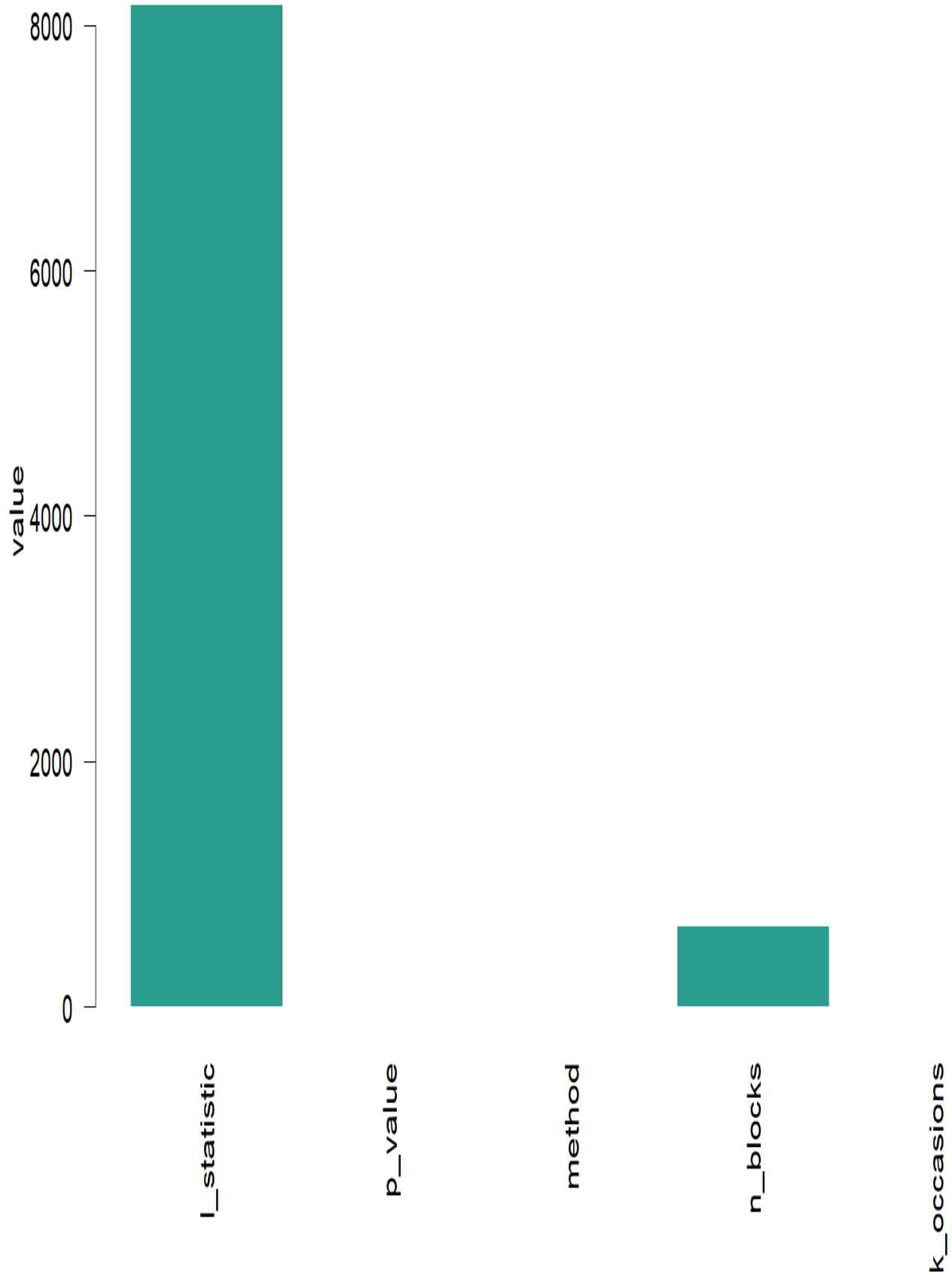
k_occasions: 3

Interpretation:

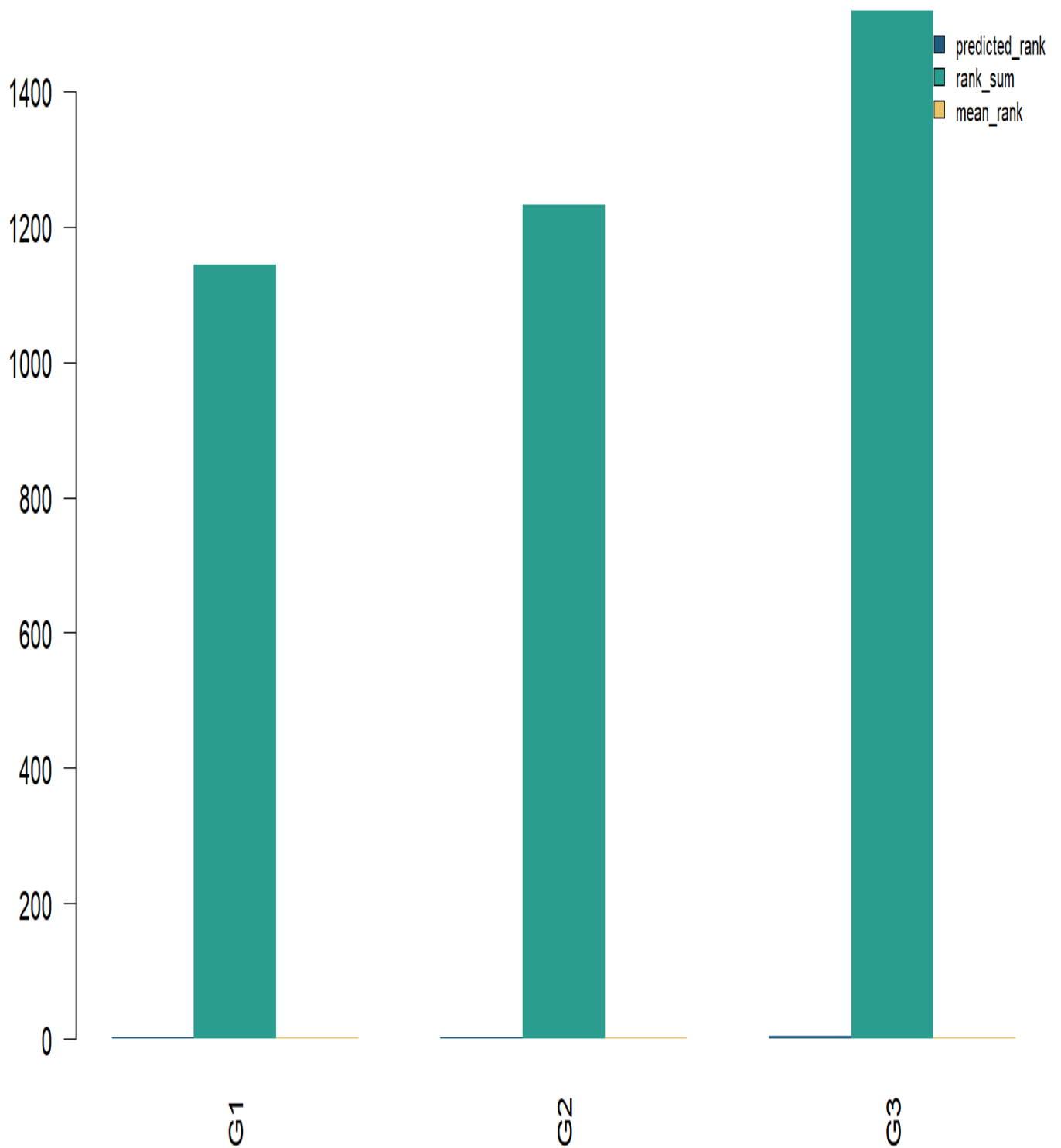
The $G1 < G2 < G3$ ordering was specified before testing.

Page $L = 8164$ $p = 8.45558625289801e-26$

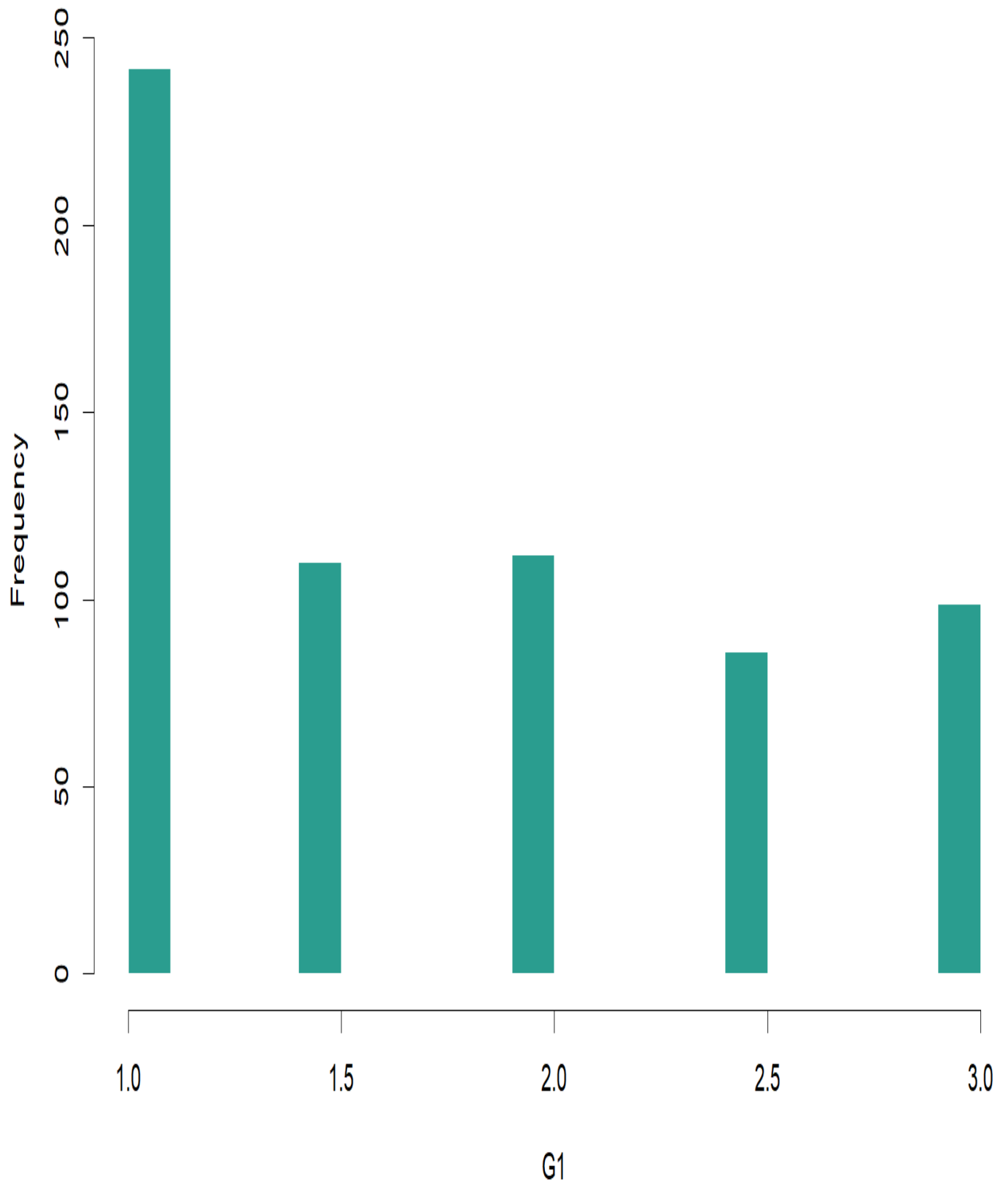
Page's Ordered Alternatives Test - primary metrics



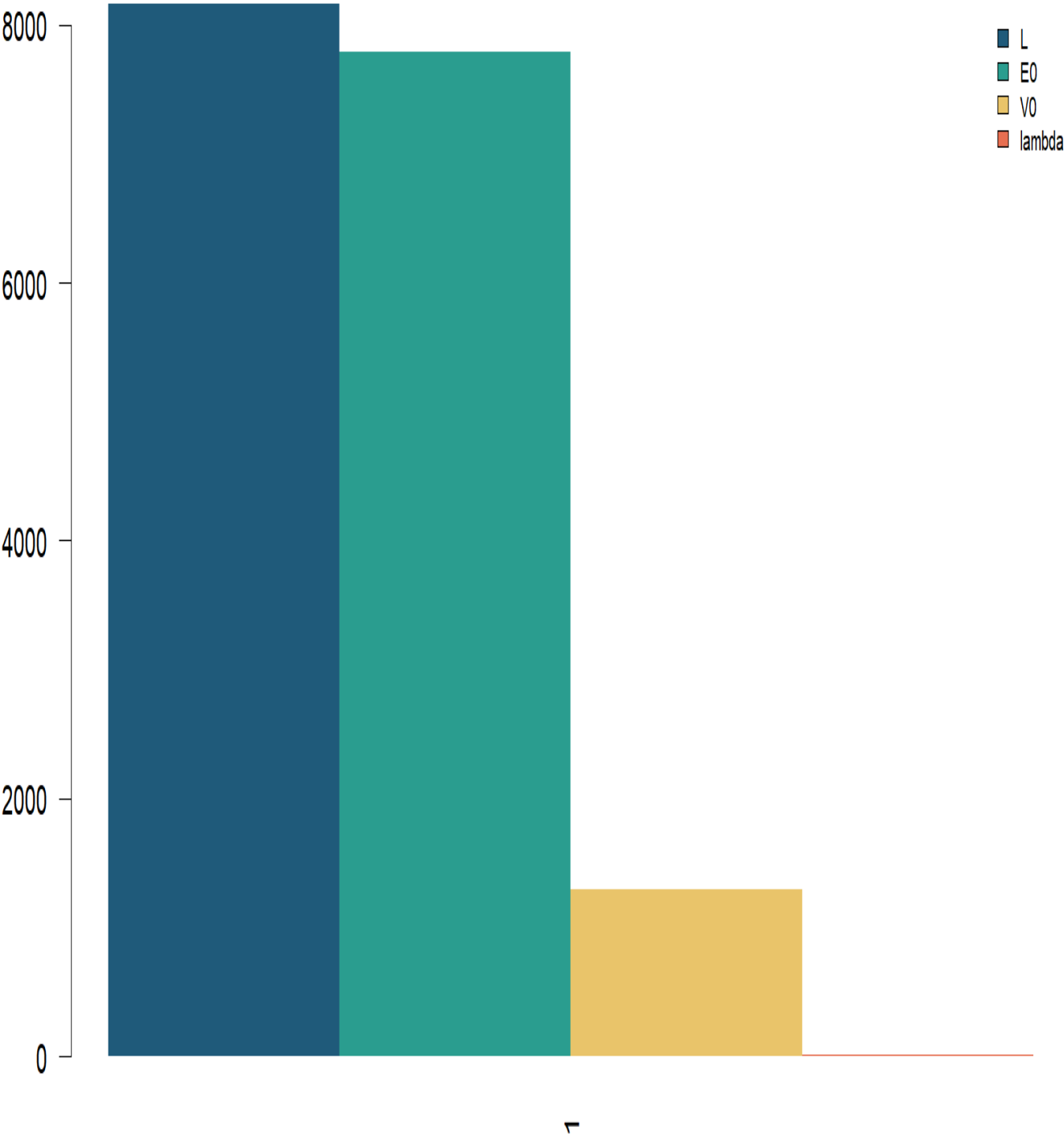
Page's Ordered Alternatives Test - ordered occasion ranks



Page's Ordered Alternatives Test - student ordered ranks



Page's Ordered Alternatives Test - page standardization



Page's Ordered Alternatives Test verified results

k_occasions

n_blocks

p_value

l_statistic

