

Van der Waerden Normal–Scores Test

Test: Van der Waerden Normal–Scores Test

Design: Normal–score comparison of final grades across maternal occupation groups.

Variables: G3, Mjob

Null hypothesis: All maternal–occupation groups share the same location distribution.

Formula: $A^2 = [\sum_j n_j \bar{z}_j^2] / [\sum_i z_i^2 / (N-1)]$, $z_i = \Phi^{-1}(R_i / (N+1))$

Source rows: 649

Calculated metrics:

statistic: 33.7819947516239

p_value: 8.2597632226031e–07

degrees_of_freedom: 4

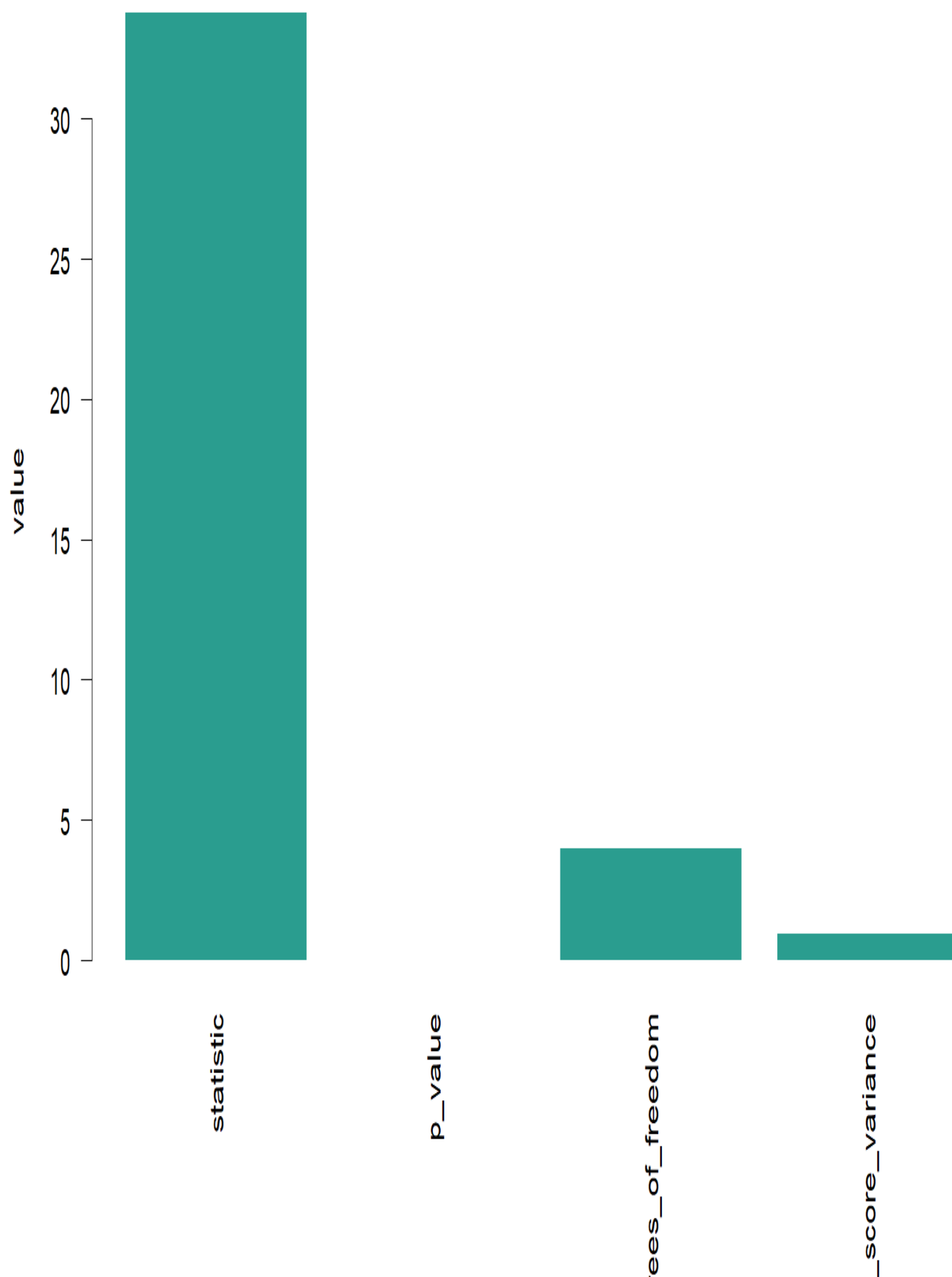
normal_score_variance: 0.951103961067578

Interpretation:

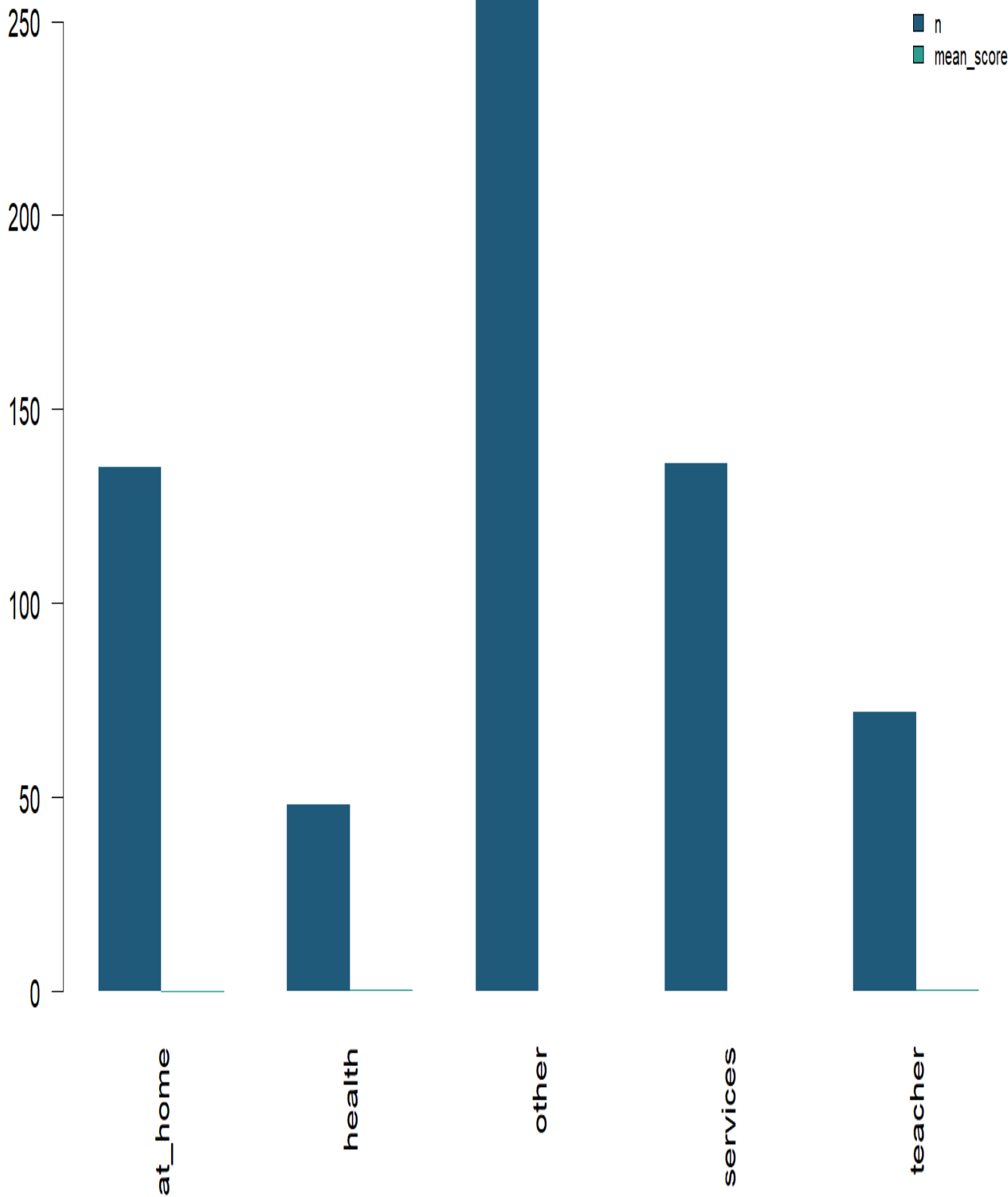
Pooled midranks are transformed to standard–normal scores.

p = 8.2597632226031e–07

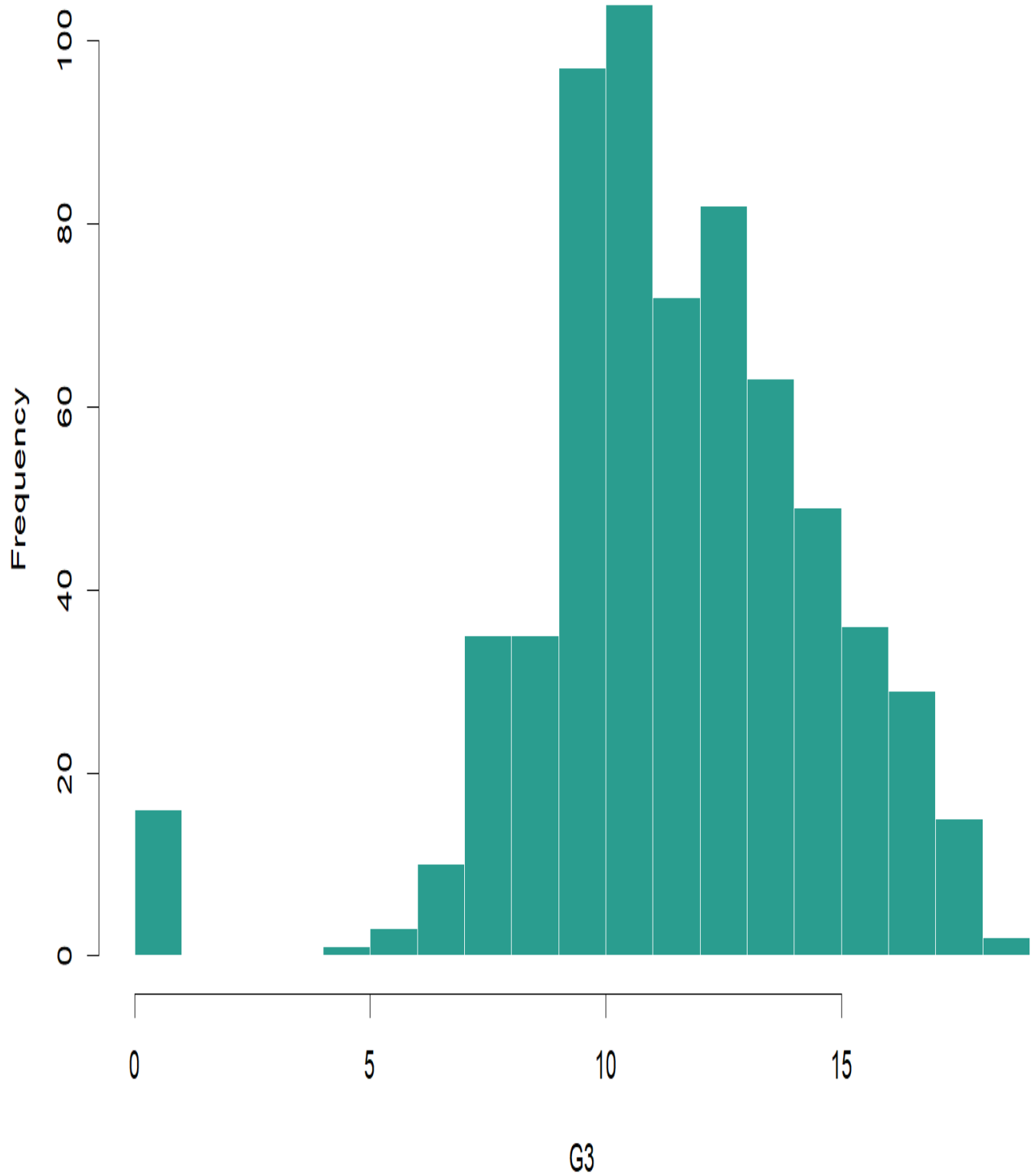
Van der Waerden Normal-Scores Test - primary metrics



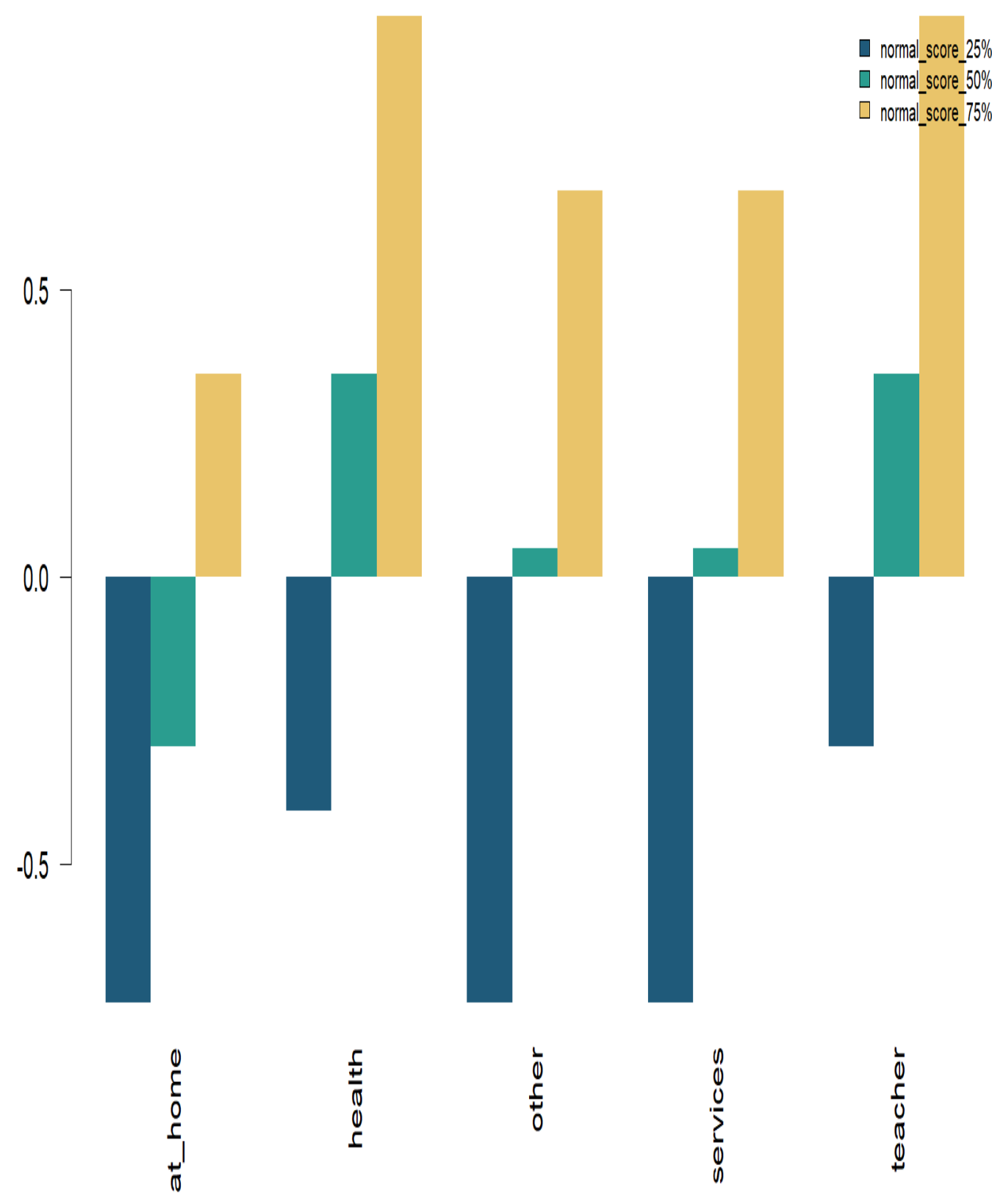
Van der Waerden Normal-Scores Test - maternal job normal scores



Van der Waerden Normal-Scores Test - scored observations



Van der Waerden Normal-Scores Test - normal score quantiles



Van der Waerden Normal-Scores Test verified results

