

PYTHON V4 COLOR CHECK — these bars must be colored



Blue

Orange

Purple

Green

Red

Cyan

ANSARI-BRADLEY TEST – PYTHON V4

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Dataset: D:\DATA ANALYSIS\J Nonparametric Tests\Ansari Bradley Test\dataset.csv
Outcome: G3
Grouping variable: famsup
Sample X: no (n=251)
Sample Y: yes (n=398)

DESCRIPTIVE STATISTICS

no: mean=11.6653, median=12.0000, SD=3.6022, IQR=4.0000
yes: mean=12.0578, median=12.0000, SD=2.9674, IQR=4.0000

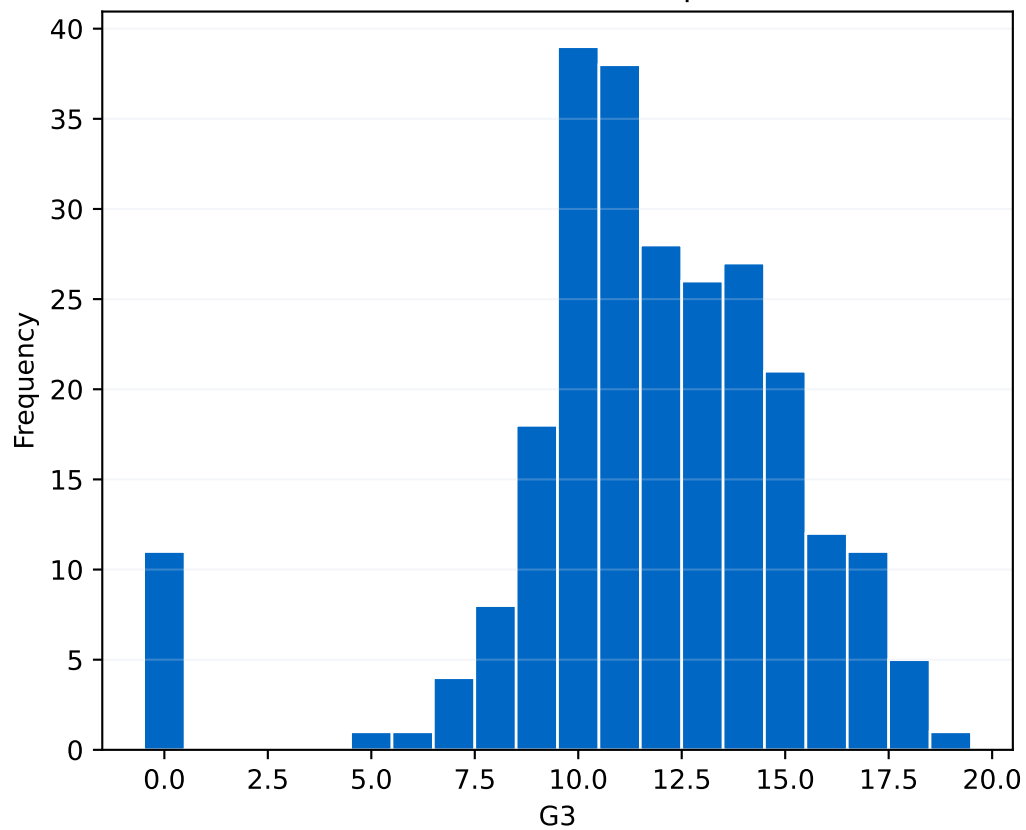
TEST RESULTS

A statistic = 40094.500000
Expected A = 40850.346687
Tie-adjusted variance = 1368865.001712
Standard error = 1169.985043
Z = 0.646031
Asymptotic p = 0.5182592353
Deterministic permutation p = 0.5108489151
Decision: Fail to reject the null hypothesis of equal scale.

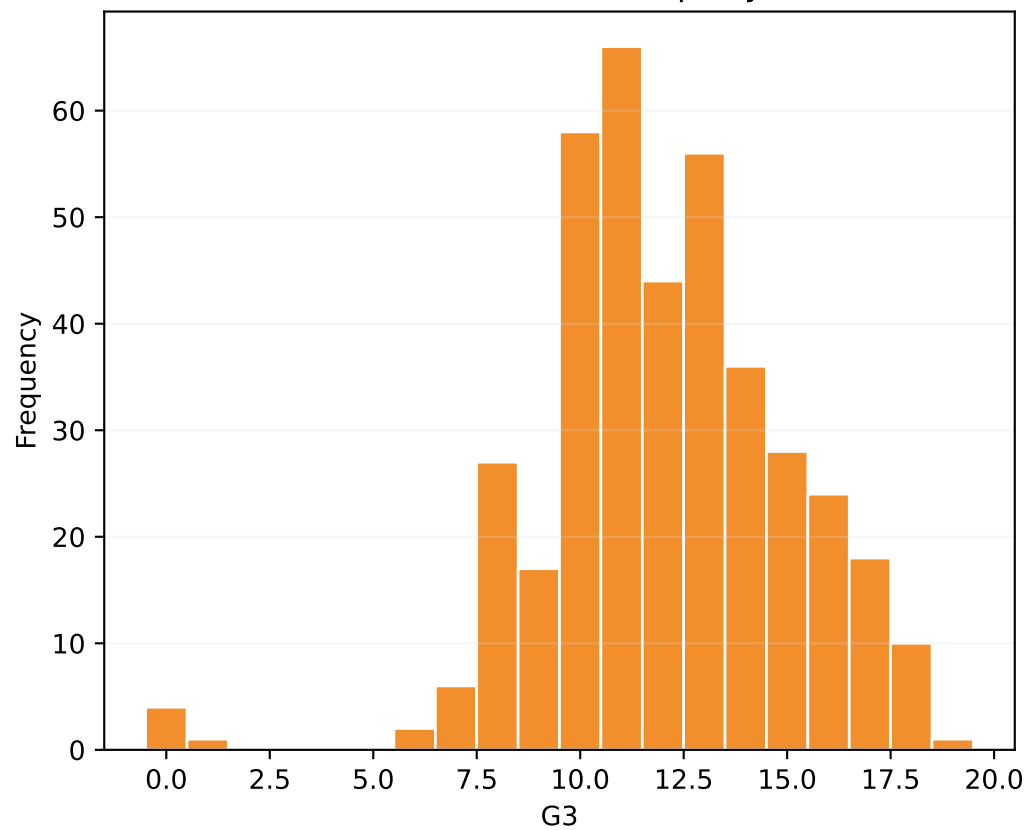
NOTE

G3 contains tied integer values. The normal approximation uses the tie-adjusted variance. Both group medians are 12.

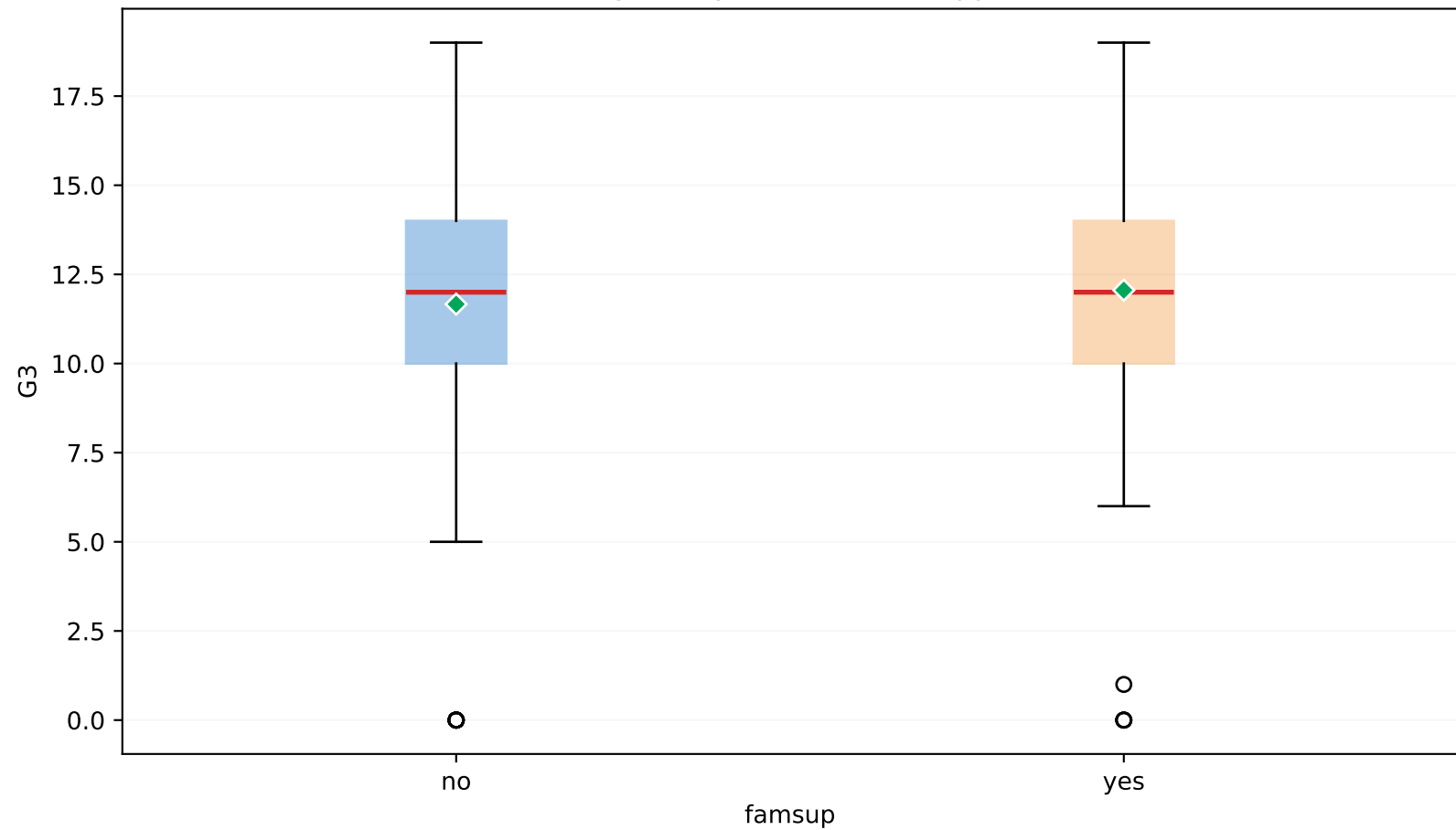
G3 distribution: famsup = no



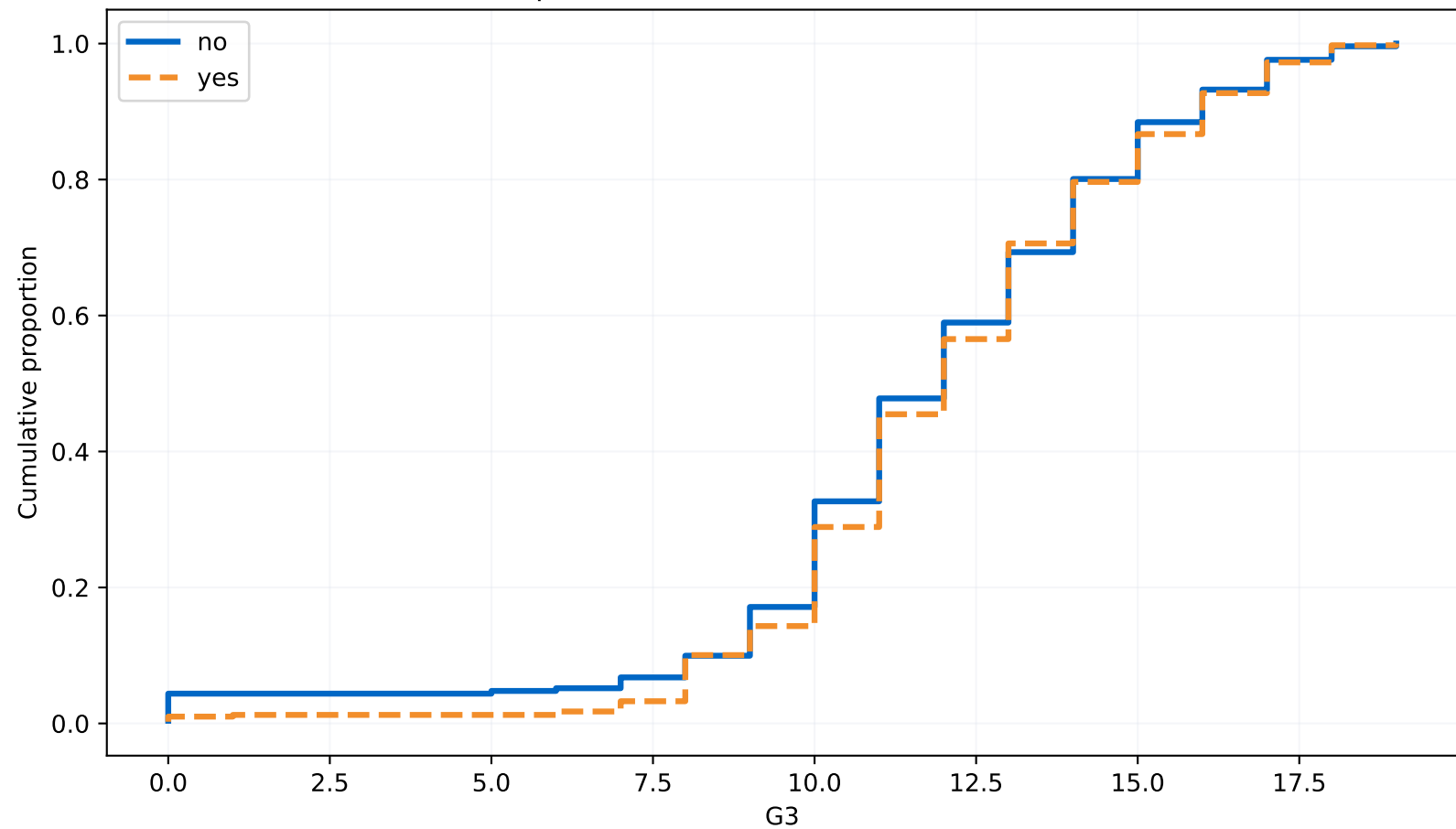
G3 distribution: famsup = yes



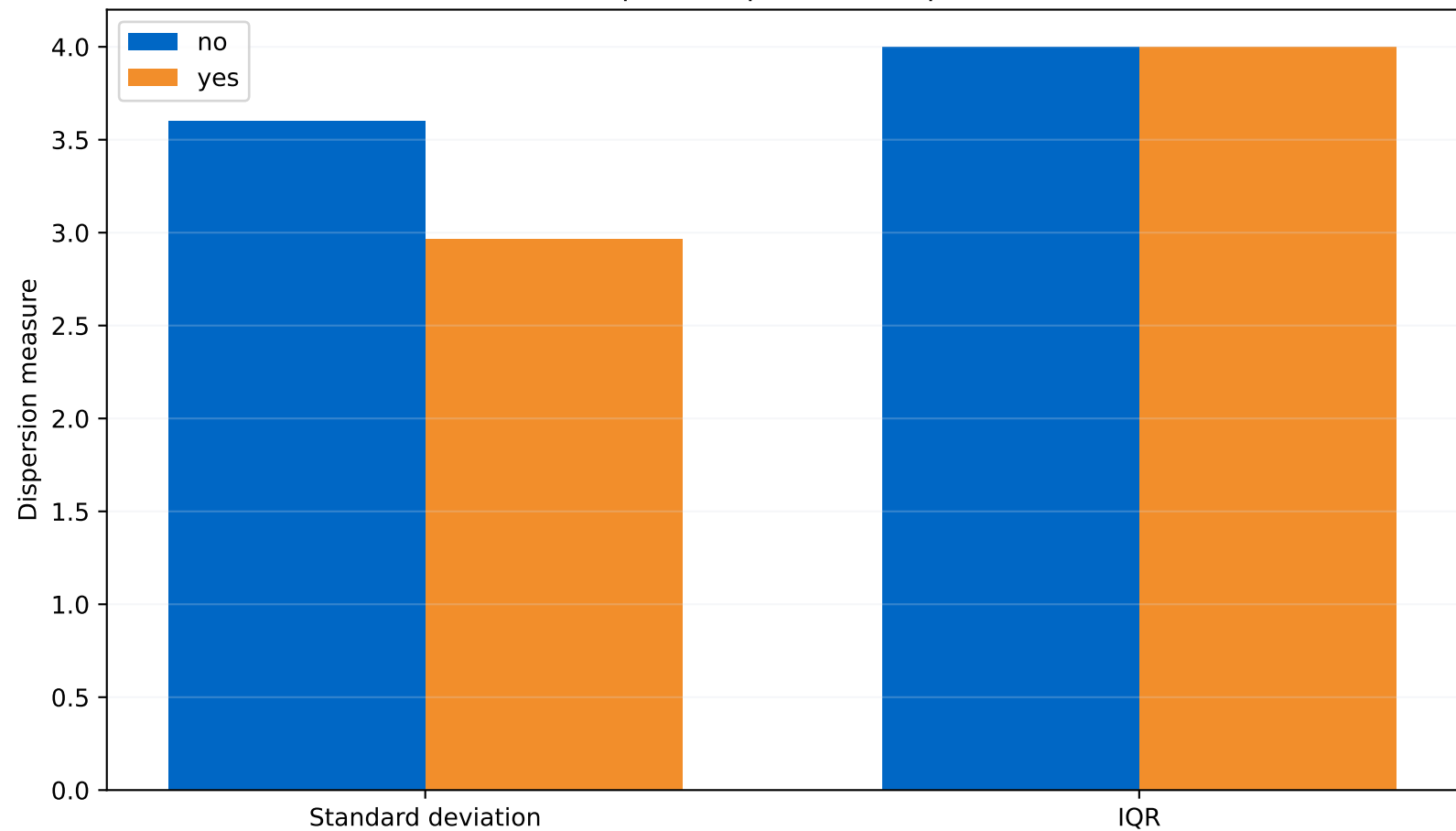
G3 by family educational support



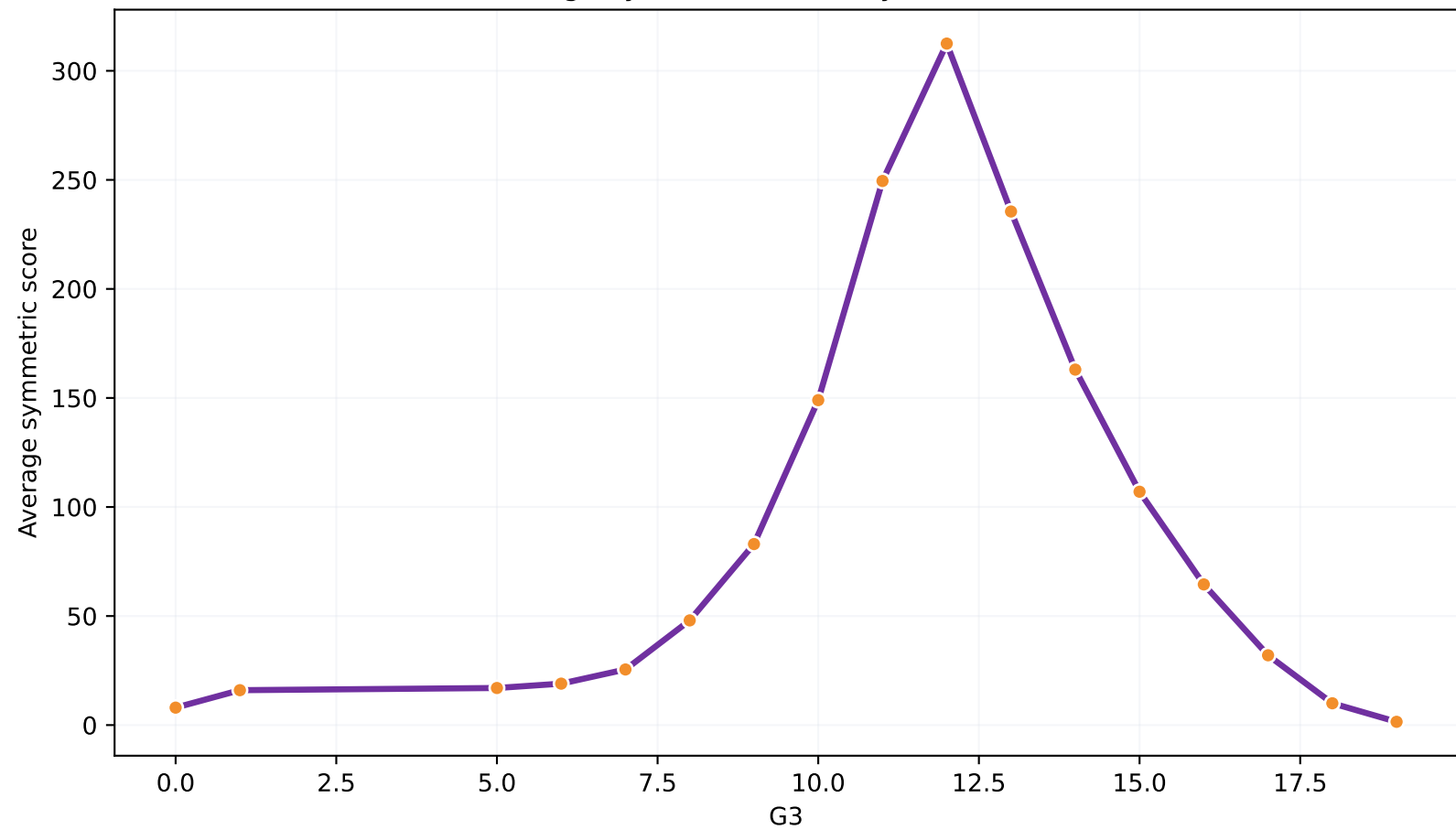
Empirical cumulative distributions of G3



Descriptive dispersion comparison



Average symmetric score by observed G3



Deterministic permutation distribution of A

