

# SmartPLS–Style PLS–SEM Bootstrap

Test: SmartPLS–Style PLS–SEM Bootstrap

Design: Component–based outer model with 1,000–case bootstrap for the social structural path.

Variables: G1, G2, G3, famrel, freetime, goout, studytime, failures

Null hypothesis: The bootstrapped PLS social path includes zero.

Formula: Estimate PLS construct scores and OLS inner paths; bootstrap cases for percentile confidence limits.

Source rows: 649

Calculated metrics:

social\_path:  $-0.0470898201207388$

bootstrap\_ci\_low:  $-0.12464436882455$

bootstrap\_ci\_high:  $0.0333140632621074$

bootstrap\_replications: 1000

academic\_r\_squared:  $0.208490582064094$

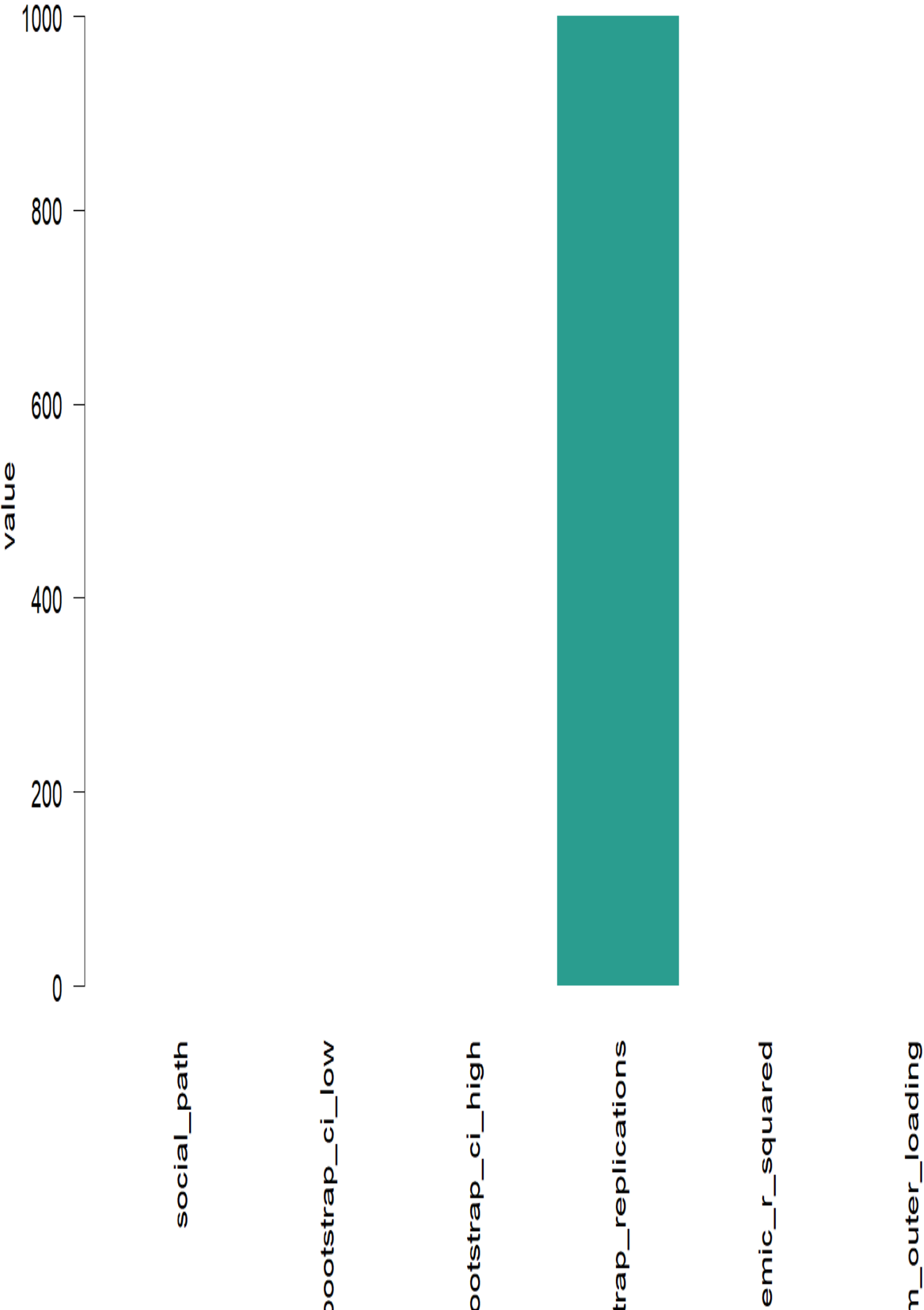
minimum\_outer\_loading:  $0.423664531212442$

Interpretation:

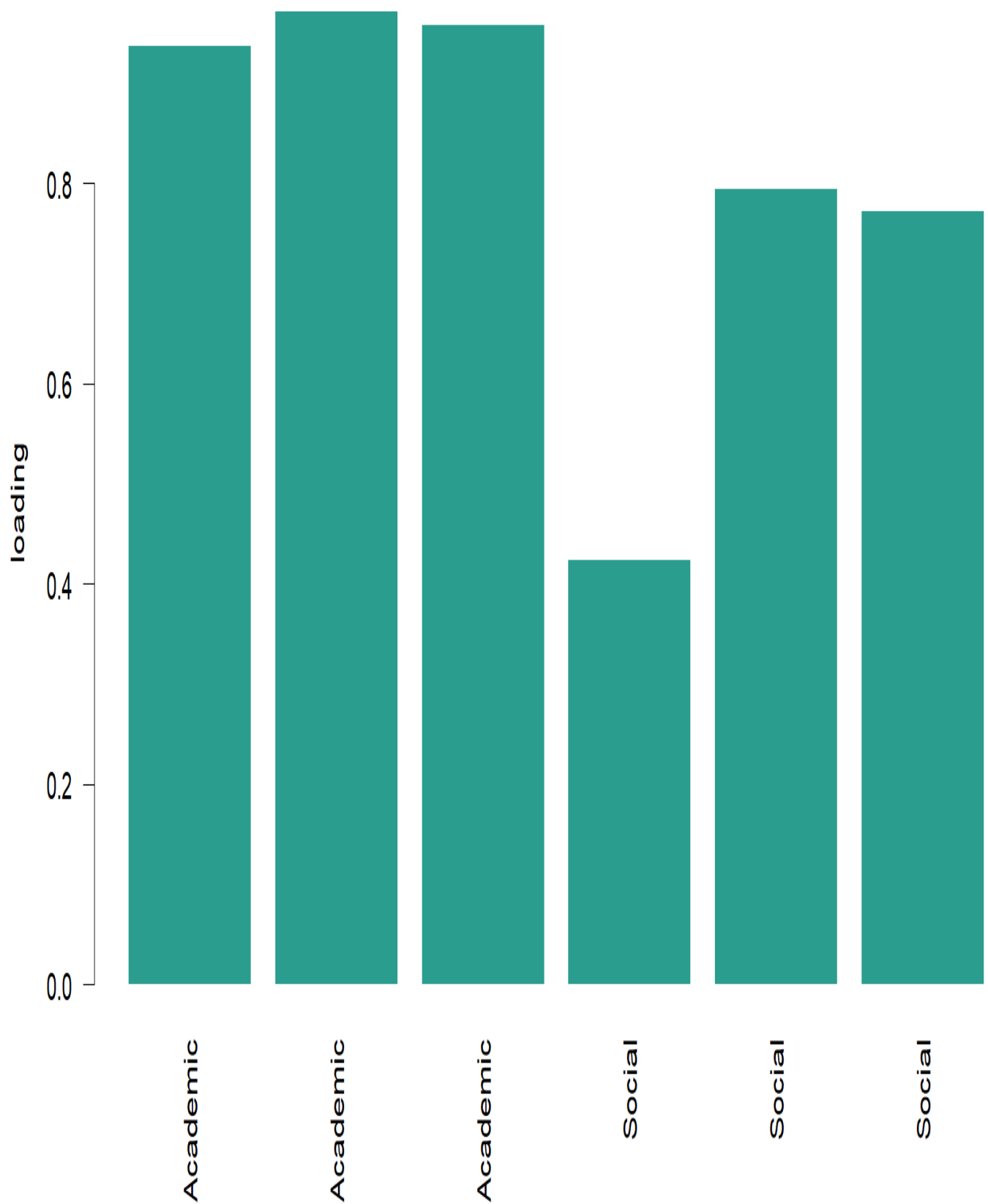
SmartPLS–style bootstrap re–estimates outer weights.

Interval  $-0.12464436882455$   $0.0333140632621074$

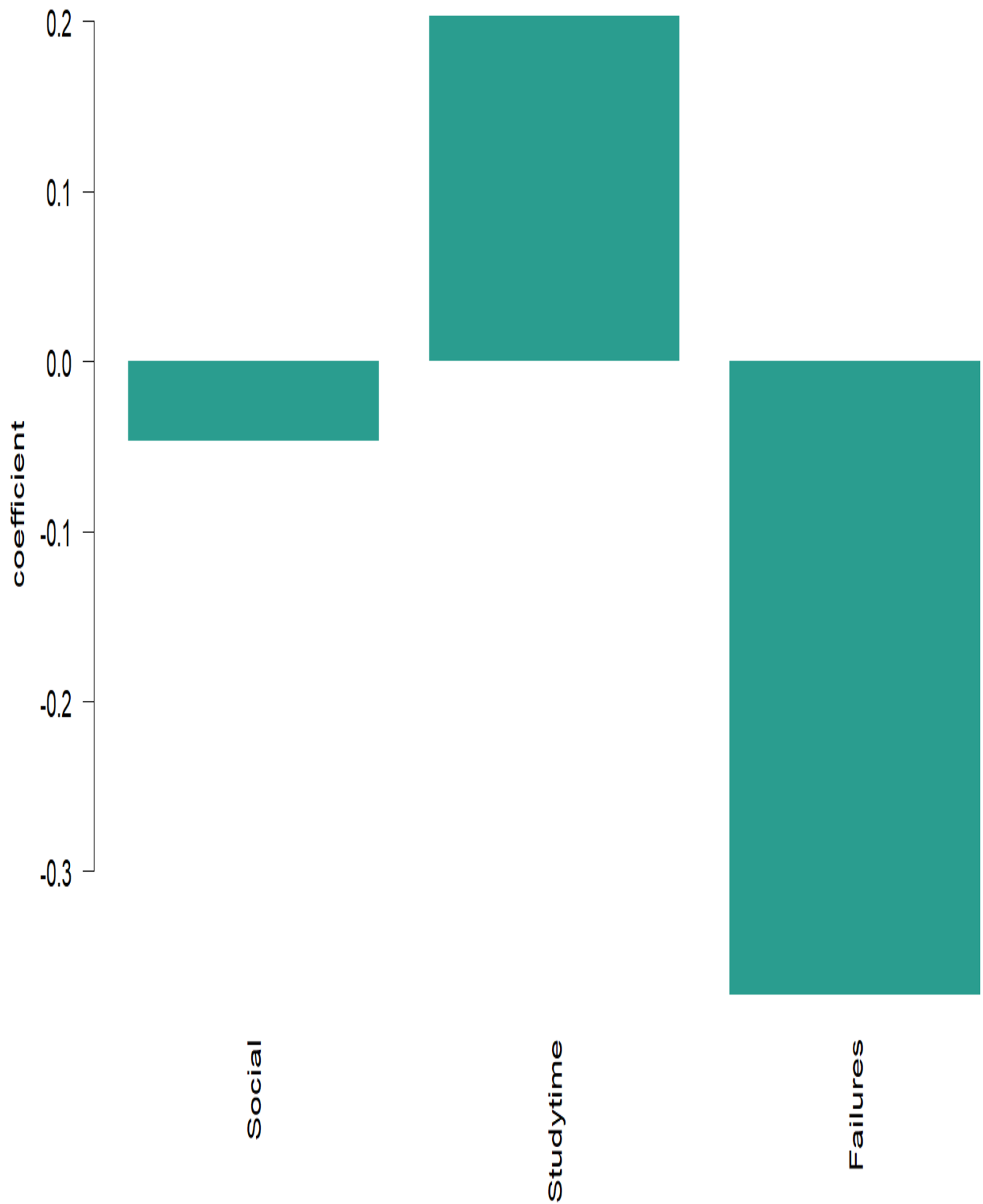
SmartPLS-Style PLS-SEM Bootstrap - primary metrics



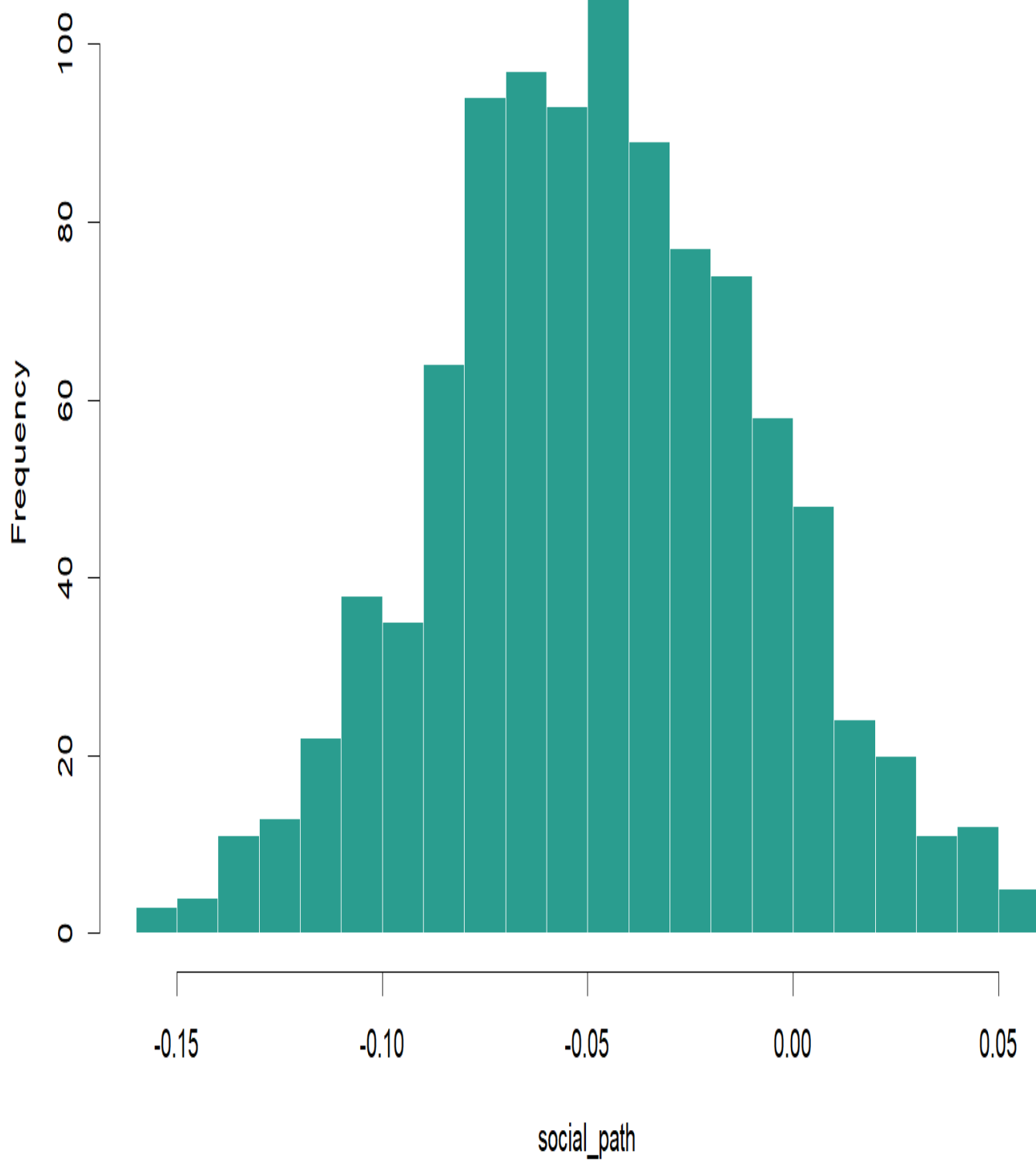
# SmartPLS-Style PLS-SEM Bootstrap - smartpls outer model



# SmartPLS-Style PLS-SEM Bootstrap - smartpls inner model



## SmartPLS-Style PLS-SEM Bootstrap - smartpls reestimated bootstrap



# SmartPLS-Style PLS-SEM Bootstrap verified results

