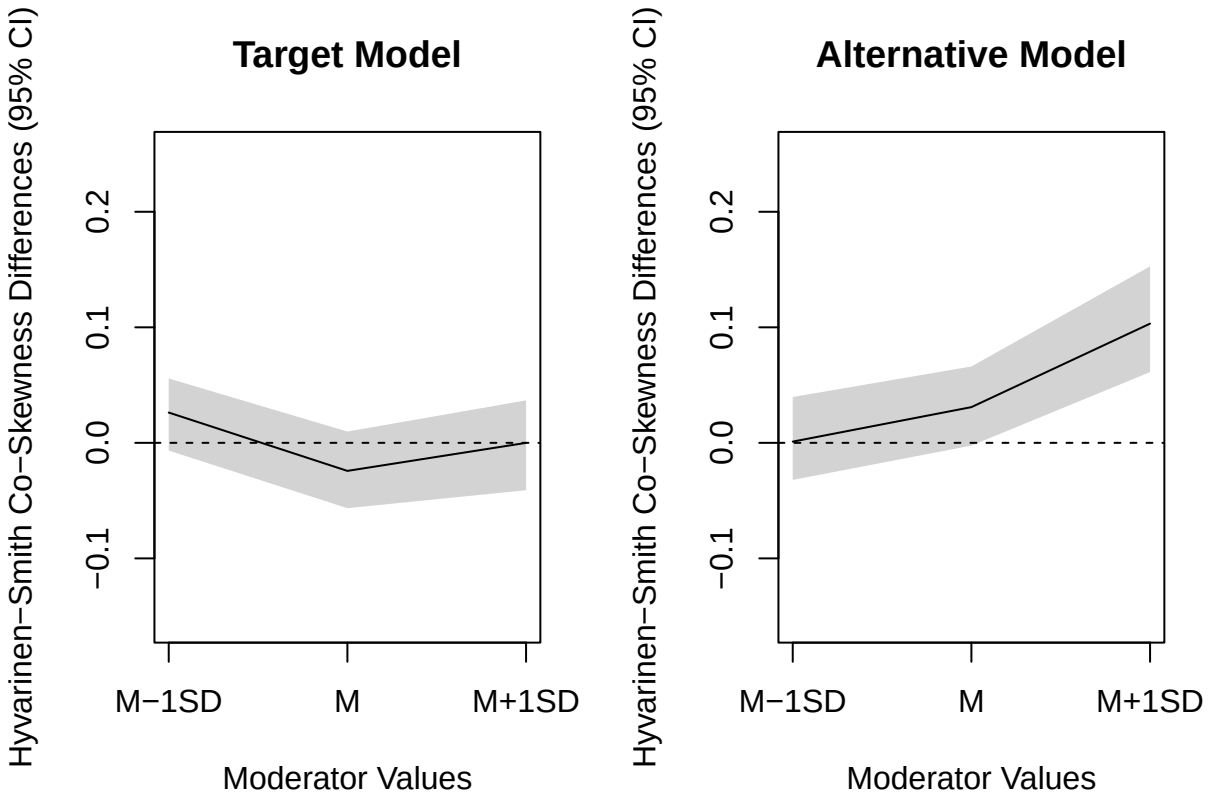
CDDA Report

Variable Distribution

```
## ----------------------------------------------------
## OLS Summary: Target Model
##
##             Estimate Std. Error  t value Pr(>|t|)
## (Intercept)  -1.6682     0.0871 -19.1459   0.0000
## ac2           0.4572     0.0248  18.4266   0.0000
## female        0.0062     0.1450   0.0427   0.9659
## ac2:female    0.0460     0.0388   1.1858   0.2359
## ----------------------------------------------------
##
## OLS Summary: Alternative Model
##
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept)   3.3854     0.0403 83.9660   0.0000
## pb2           0.7213     0.0380 19.0044   0.0000
## female        0.1795     0.0591  3.0390   0.0024
## pb2:female   -0.0358     0.0569 -0.6281   0.5301
```

Plot



Summary

```
##
## D'Agostino Skewness Tests
## ------------------------------------------------------------------------
##              Target Model                  Alternative Model
## ------------------------------------------------------------------------
##               statistic z-value p-value statistic z-value p-value
## ModVal M-1SD     -0.543  -7.347       0    -0.408  -5.664       0
## ModVal M         -0.525  -7.140       0    -0.616  -8.217       0
## ModVal M+1SD     -0.907 -11.296       0    -1.351 -15.091       0
##
## Skewness differences
## ------------------------------------------------------------------------
##              Target Model       Alternative Model
## ------------------------------------------------------------------------
##                 diff  lower upper   diff  lower upper
## ModVal M-1SD   0.145 -0.046 0.299 -0.043 -0.157 0.114
## ModVal M      -0.074 -0.227 0.061  0.134 -0.006 0.316
## ModVal M+1SD   0.379  0.009 0.743  1.566  0.932 2.286
## ---
##
```

```
## 95% percentile bootstrap CIs (200 resamples)
##
## Anscombe-Glynn Kurtosis Tests
## ------------------------------------------------------------------------
##              Target Model                 Alternative Model
## ------------------------------------------------------------------------
##              statistic z-value p-value statistic z-value p-value
## ModVal M-1SD     1.239   5.829       0     1.012   5.093   0.000
## ModVal M        -0.580  -5.904       0    -0.300  -2.454   0.014
## ModVal M+1SD     2.263   8.319       0     3.838  10.730   0.000
## ---
##
## 95% percentile bootstrap CIs (200 resamples)
##
## Excess Kurtosis differences
## ------------------------------------------------------------------------
##            Target Model            Alternative Model
## ------------------------------------------------------------------------
##               diff  lower upper   diff  lower  upper
## ModVal M-1SD 1.396  0.484 2.576  0.936  0.203  2.428
## ModVal M     0.201 -0.101 0.479 -0.319 -0.529  0.069
## ModVal M+1SD 5.118  2.140 8.962 14.618  5.889 27.442
## ---
```

Independenve Properties

```
##
## ------------------------------------------------------
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## ------------------------------------------------------
## OLS Summary: Alternative Model
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## pb2           0.7213     0.0380 19.0044   0.0000
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## pb2:female   -0.0358     0.0569 -0.6281   0.5301
```
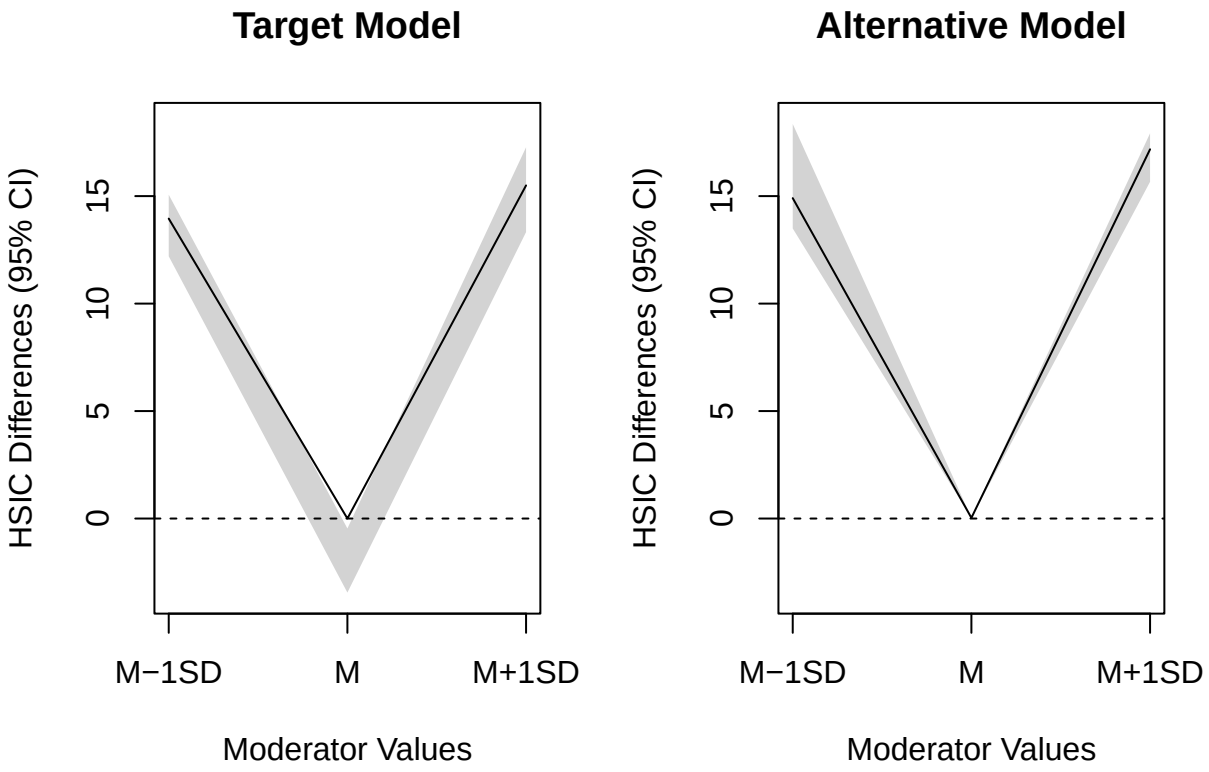

Plot



Summary

```
##
## Hilbert-Schmidt Independence Criterion
## ------------------------------------------------------------------------
##              Target Model                  Alternative Model
## ------------------------------------------------------------------------
##                HSIC crit value p-value  HSIC crit value p-value
## ModVal M-1SD 1.587      0.541       0 1.690      0.549       0
## ModVal M     6.909      0.606       0 6.822      0.614       0
## ModVal M+1SD 3.070      0.543       0 2.973      0.541       0
## ---
##
##
## 95% percentile bootstrap CIs (2 resamples)
##
## Distance Correlation
## ------------------------------------------------------------------------
##              Target Model           Alternative Model
## ------------------------------------------------------------------------
##                dCor p-value  dCor p-value
## ModVal M-1SD 0.114   0.333 0.118   0.333
```

```
## ModVal M     0.177   0.333 0.168   0.333
## ModVal M+1SD 0.162   0.333 0.139   0.333
## ---
##
```