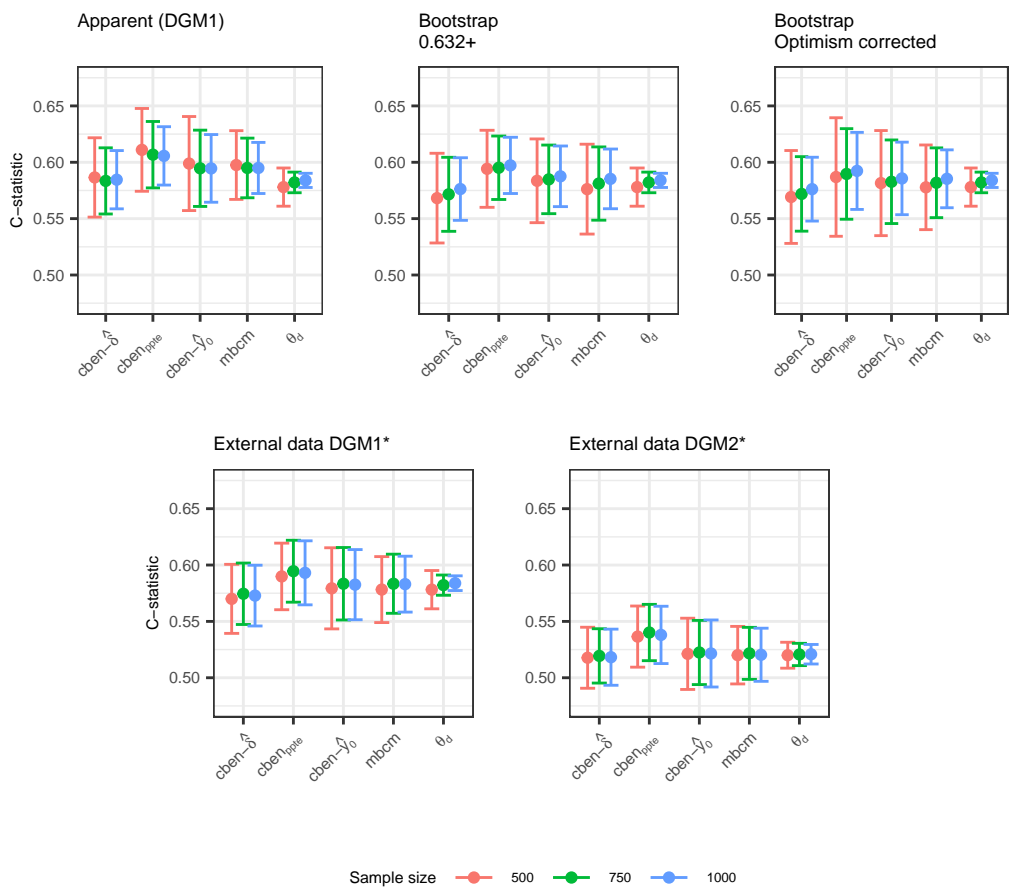


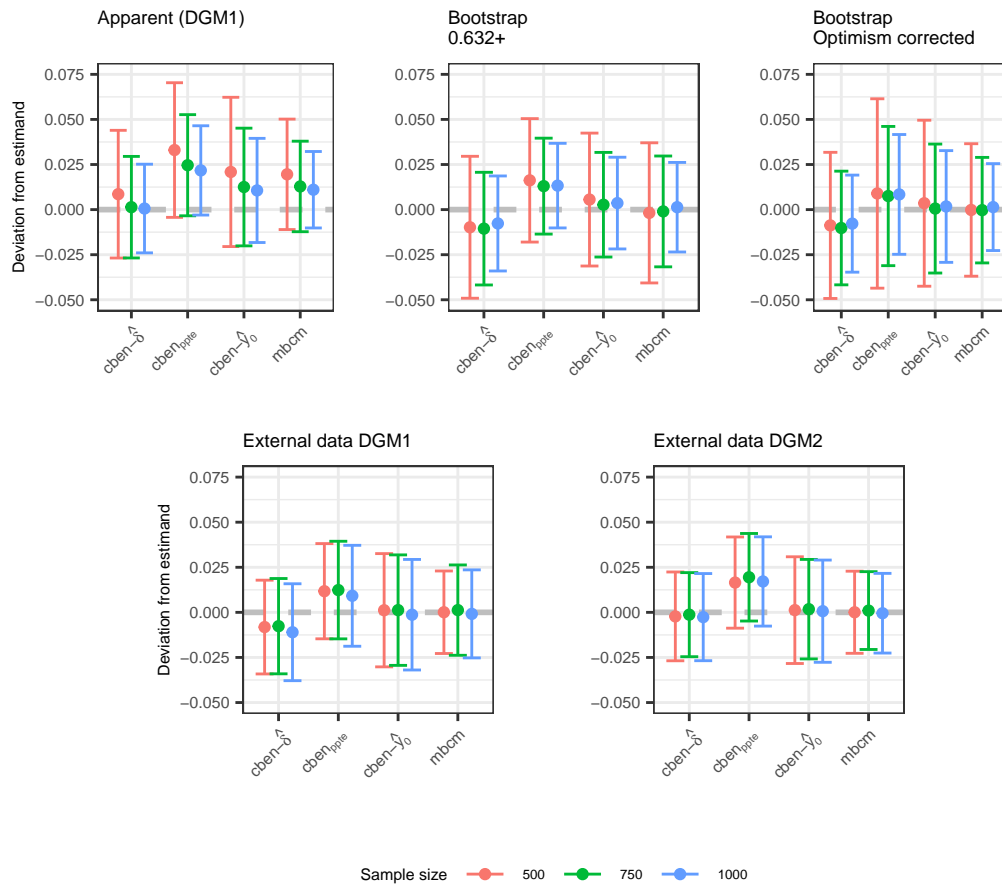
# Replicate script

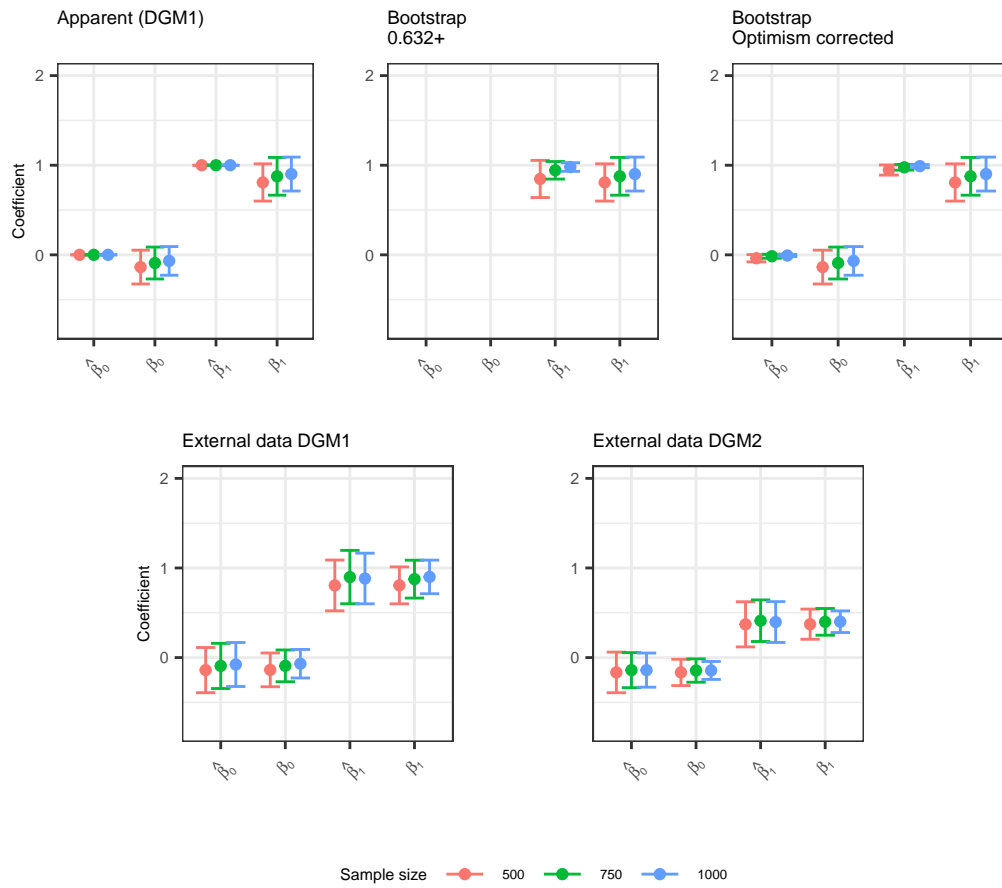
Samuel Langton

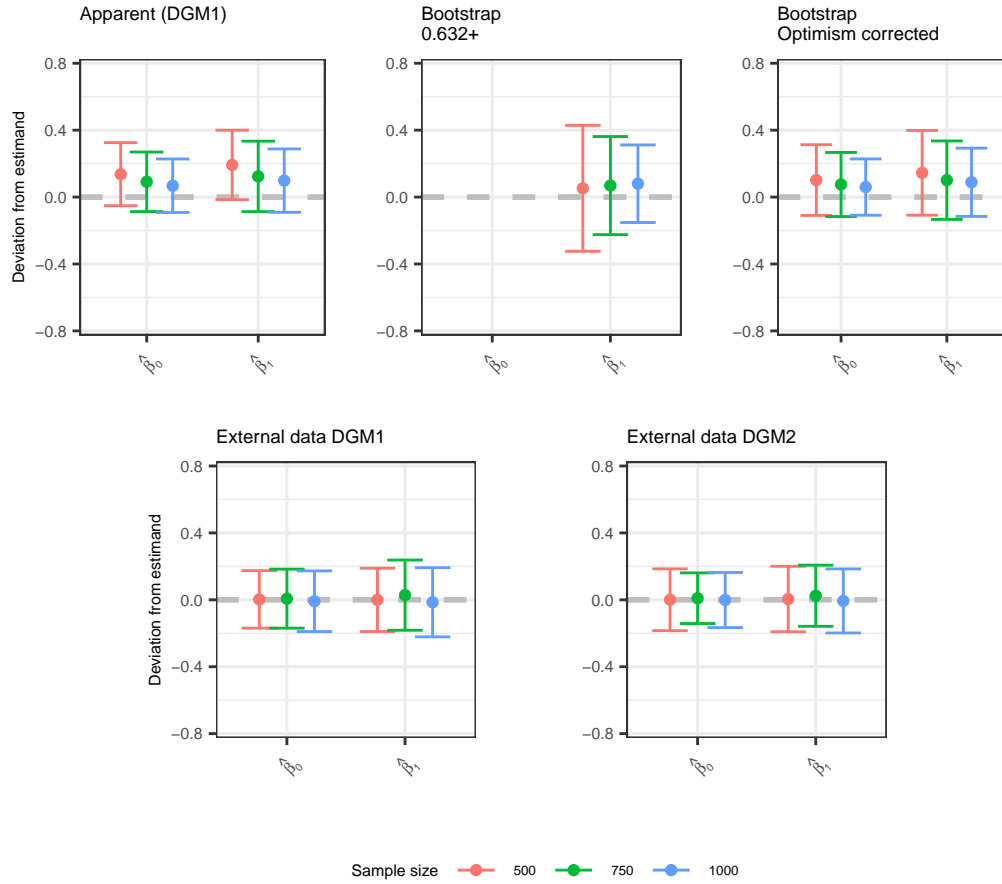
2024-12-16

## Plots









**Table 1**

Statistic	V1	V2	V3	V4
apparent.discr	0.036,0.028,0.025	0.05,0.037,0.033	0.046,0.035,0.031	0.036,0.028,0.024
ext1.app.discr	0.027,0.027,0.029	0.029,0.03,0.029	0.033,0.032,0.029	0.037,0.028,0.024
ext2.app.discr	0.025,0.023,0.024	0.03,0.031,0.03	0.042,0.042,0.042	0.085,0.08,0.078
boot0.632.discr	0.041,0.033,0.027	0.038,0.03,0.027	0.037,0.029,0.026	0.039,0.031,0.025
boot.opt.discr	0.041,0.033,0.028	0.053,0.039,0.034	0.046,0.036,0.031	0.037,0.029,0.024
ext1.total.discr	0.027,0.027,0.029	0.029,0.03,0.029	0.031,0.031,0.031	0.023,0.025,0.024
ext2.total.discr	0.025,0.023,0.024	0.03,0.031,0.03	0.03,0.028,0.028	0.023,0.022,0.022

**Table 2**

Statistic	V1	V2	V3	V4	V5	V6
apparent.cal	0.23	0.20	0.17	0.28	0.24	0.21
boot0.632.cal				0.38	0.30	0.24
boot.opt.cal	0.23	0.21	0.18	0.29	0.26	0.22
ext1.total.cal	0.17	0.18	0.18	0.19	0.21	0.21
ext2.total.cal	0.18	0.15	0.16	0.20	0.18	0.19

**Session info****replicate.R**

```
sessionInfo()
```

```
R version 4.4.2 (2024-10-31 ucrt)
Platform: x86_64-w64-mingw32/x64
Running under: Windows 11 x64 (build 22621)
```

```
Matrix products: default
```

```
locale:
[1] LC_COLLATE=English_United States.utf8
[2] LC_CTYPE=English_United States.utf8
[3] LC_MONETARY=English_United States.utf8
[4] LC_NUMERIC=C
[5] LC_TIME=English_United States.utf8
```

```
time zone: Europe/Amsterdam
tzcode source: internal
```

```
attached base packages:
[1] stats      graphics  grDevices  utils      datasets  methods    base
```

```
other attached packages:
[1] DescTools_0.99.58 xtable_1.8-4      stringr_1.5.1     patchwork_1.3.0
```

[5] ggplot2\_3.5.1

loaded via a namespace (and not attached):

[1] gld_2.6.6	gtable_0.3.6	xfun_0.49
[4] lattice_0.22-6	vctrs_0.6.5	tools_4.4.2
[7] generics_0.1.3	tibble_3.2.1	proxy_0.4-27
[10] fansi_1.0.6	pkgconfig_2.0.3	Matrix_1.7-1
[13] data.table_1.16.4	uuid_1.2-1	readxl_1.4.3
[16] lifecycle_1.0.4	rootSolve_1.8.2.4	flextable_0.9.7
[19] compiler_4.4.2	farver_2.1.2	textshaping_0.4.1
[22] Exact_3.3	munsell_0.5.1	fontquiver_0.2.1
[25] fontLiberation_0.1.0	htmltools_0.5.8.1	class_7.3-22
[28] yaml_2.3.10	pillar_1.9.0	MASS_7.3-61
[31] openssl_2.2.2	boot_1.3-31	fontBitstreamVera_0.1.1
[34] zip_2.3.1	tidyselect_1.2.1	digest_0.6.37
[37] mvtnorm_1.3-2	stringi_1.8.4	dplyr_1.1.4
[40] labeling_0.4.3	forcats_1.0.0	fastmap_1.2.0
[43] grid_4.4.2	colorspace_2.1-1	lmom_3.2
[46] expm_1.0-0	cli_3.6.3	magrittr_2.0.3
[49] utf8_1.2.4	e1071_1.7-16	withr_3.0.2
[52] gdttools_0.4.1	scales_1.3.0	rmarkdown_2.29
[55] officer_0.6.7	httr_1.4.7	cellranger_1.1.0
[58] askpass_1.2.1	ragg_1.3.3	hms_1.1.3
[61] evaluate_1.0.1	knitr_1.49	haven_2.5.4
[64] rlang_1.1.4	Rcpp_1.0.13-1	glue_1.8.0
[67] xml2_1.3.6	rstudioapi_0.17.1	jsonlite_1.8.9
[70] R6_2.5.1	plyr_1.8.9	systemfonts_1.1.0

**sim.R**

```
load("results/info.RData")
```

```
info
```

R version 4.4.2 (2024-10-31 ucrt)

Platform: x86\_64-w64-mingw32/x64

Running under: Windows 11 x64 (build 22621)

Matrix products: default

```
locale:
[1] LC_COLLATE=English_United States.utf8
[2] LC_CTYPE=English_United States.utf8
[3] LC_MONETARY=English_United States.utf8
[4] LC_NUMERIC=C
[5] LC_TIME=English_United States.utf8

time zone: Europe/Amsterdam
tzcode source: internal

attached base packages:
[1] parallel stats graphics grDevices utils datasets methods
[8] base

other attached packages:
[1] pbapply_1.7-2 doParallel_1.0.17 iterators_1.0.14 foreach_1.5.2

loaded via a namespace (and not attached):
[1] compiler_4.4.2 tools_4.4.2 rstudioapi_0.17.1 codetools_0.2-20
```

### **population.R and support\_functions.R**

No packages loaded. Operating system and R version as above.