Meta Analysis of cross-sectional studies

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Chapter 1

Preamble

OSF project: https://osf.io/3xdh8/

pre-registration: https://osf.io/6qpye

Chapter 2

Introduction

Preregistration details and links available in section preamble1.

This meta-analysis covers 2000-2020. It thus extends partially with the meta-analysis by Bediou et al. 2018 and extends it by 5 years.

2.1 Overview of our first meta-analysis (Bediou et al., 2018)

The literature review from our former meta-analysis (Bediou et al., 2018) covered the period between January 2000 and December 2015. A total of 5,770 abstracts were identified, from which 630 full texts were thus dimmed eligible. Only 82 manuscripts passed our inclusion/exclusion criteria, comprising 65 published and 17 unpublished studies.
The cross-sectional meta-analysis by Bediou et al. (2018) included 194 effects extracted from 89 experiments drawn from 73 distinct manuscripts.

2.2 The present dataset

For the present meta-analysis, the search keywords were identical. However, our selection criteria were slightly different which could result in differences in terms of inclusion or exclusion. Therefore, all 5,770 abstracts that had been identified by our initial search were re-assessed again for eligibility by three independent reviewers. In addition, a new literature search was conducted covering the period January 2015 - June 2020. With this new search an additional 2,225 abstracts were identified (after removal of duplicates).

With the two searches combined, our selection process started from 3,497 titles, which were reduced to 749 abstracts, and went further down to 243 full texts.

studies	effects	es_min	es_max	es_median	es_Q1	es_q3
77	467	1	29	4	2	8

The table below indicates the number of studies, effects and min/max/median number of effect sizes extracted per study.

Studies with unbalanced gender ratios were discarded from analysis.

In the next section, Chapter 3, we first review the raw dataset, and then the filtered dataset which was used for all analyses.
The final dataset includes **228 effect sizes extracted from 105 studies found in 73 manuscripts (??X published??)**

Chapter 3

Data preparation and cleaning

3.1 Raw dataset

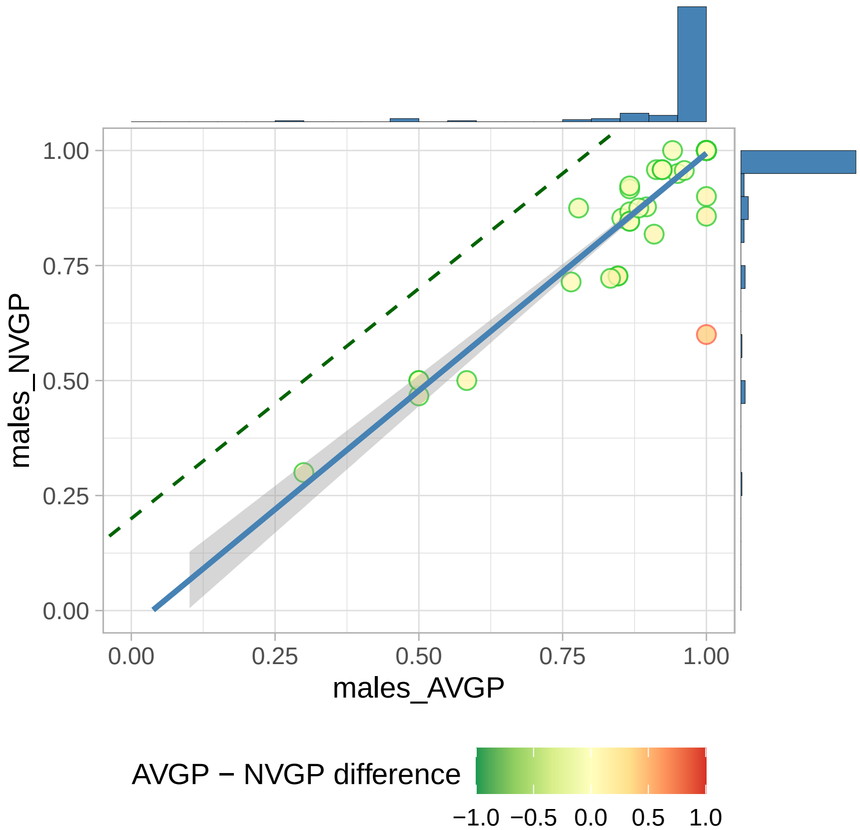
included studies

Our thorough literature review identified potentially relevant studies based on predefined keywords.
After screening of eligible studies, the *raw* data set includes:
- 77 manuscripts
- 112 studies
- 97 independent samples of participants

 # effect sizes per paper

Second, we checked gender distributions of the AVGP and NVGP groups.

manuscripts	effects	es_min	es_max	es_median	es_Q1	es_Q3
77	467	1	29	4	2	8

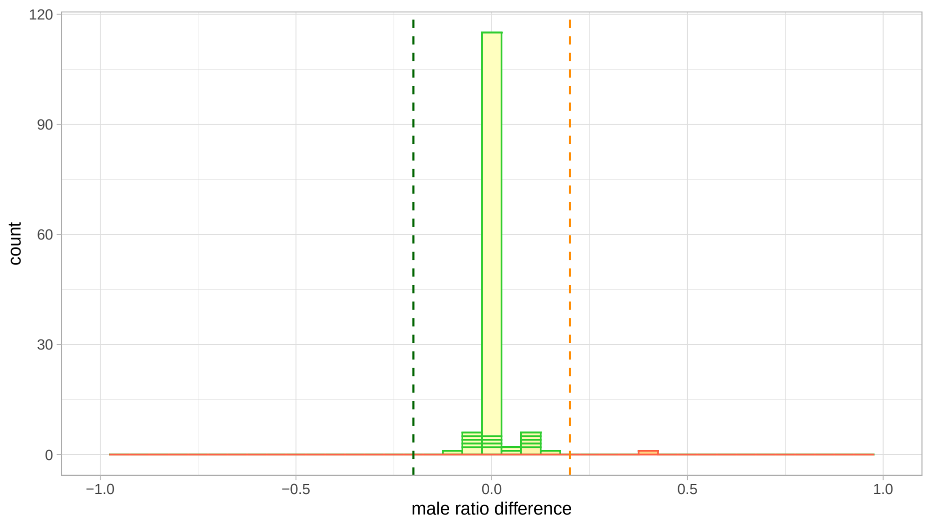


There is a predominance of males in both AVGPs and NVGPs. The green and orange dashed lines define 3 regions on the between-group difference in the proportion of males:
- The upper left region (above green) contains studies with greater proportion of males in NVGPs
- The bottom right corner (below orange) contains studies with more males in AVGPs
- Between these two lines are studies with less than 25% difference in gender ratio

There is a bias toward having more males in the AVGP group.
Therefore, only studies with a difference in gender ratio less than 25% will be included in subsequent plots and analyses

These studies are shown with a green contour

studies	effects
35	60



When the difference exceeded 20%, authors were contacted in order to obtain data from male-only samples, only if a minimum of 10 participants in each group.

excluded studies

Studies excluded at the data extraction stage for various reasons: gender imbalance, criteria for defining AVGP or NVGPs, etc.
 # effect sizes per paper - excluded studies only

3.2 Filtered dataset (i.e., matched gender)

Effect sizes as well subject and study characteristics were then extracted from all studies that were eligible.

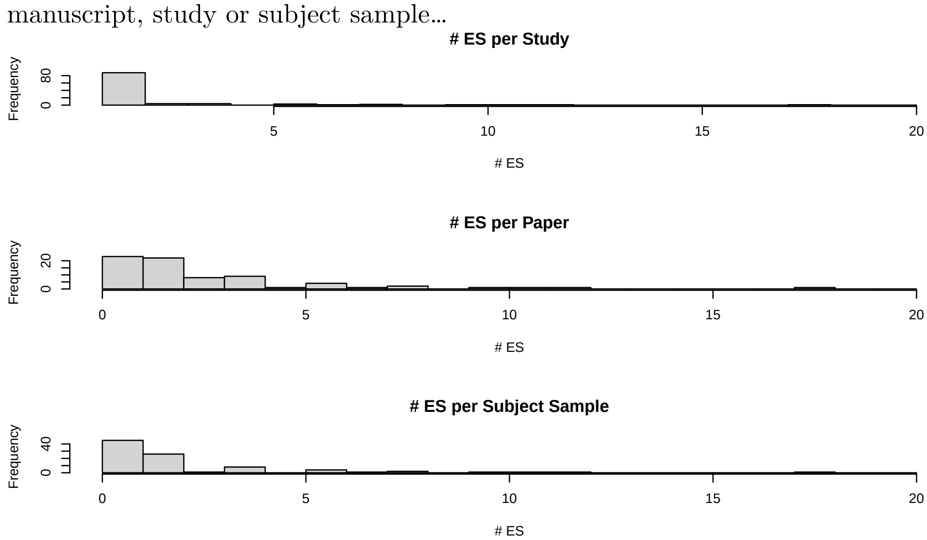
After exclusion of studies with unbalanced gender, the final data set includes:
- 230 effect sizes
- 74 papers
- 106 studies
- 91 independent samples

```
es_data %>%
  group_by(Paper) %>%
  summarise(es = n()) %>%
  summarise(
    manuscripts = n(),
```

```
    effects = sum(es),
    es_min = min(es),
    es_max = max(es),
    es_median = median(es),
    es_Q1 = quantile(es, .25),
    es_q3 = quantile(es, .75)
  )
```

```
## # A tibble: 1 x 7
##   manuscripts effects es_min es_max es_median es_Q1 es_q3
##         <int>   <int>  <int>  <int>     <dbl> <dbl> <dbl>
## 1          74     230      1     18         2     1     4
```

The figure Below shows the number of effect sizes extracted from each manuscript, study or subject sample...



Most studies contributed only few effects.

Notes:
- Studies are embedded in Papers.
- There are cases of overlap in participants across studies and papers
o Studies reported in a paper can involve overlapping samples of participants
o Samples of participants (complete or partial) can be reported in several studies or papers

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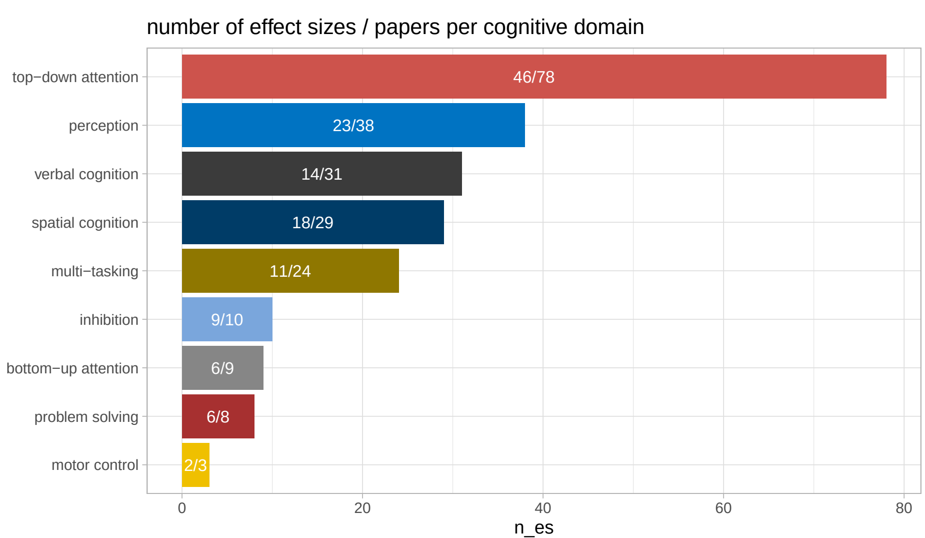
3.3 Moderators

Moderator	Level	n
Cognitive_domain	bottom-up attention	9
	inhibition	10
	motor control	3
	multi-tasking	24
	perception	38
	problem solving	8
	spatial cognition	29
	top-down attention	78
	verbal cognition	31
DV_type	accuracy	123
	speed	107
Effect	interaction	67
	main	163
Recruitment	Covert	32
	Overt	196
	Recruitment!?	2

note: problematic levels will be recoded before moderator analysis

3.3.1 Number of effect sizes and studies (i.e. manuscript) in each cognitive domain



3.3.2 List of Tasks and Cognitive Domains

Click to expand!

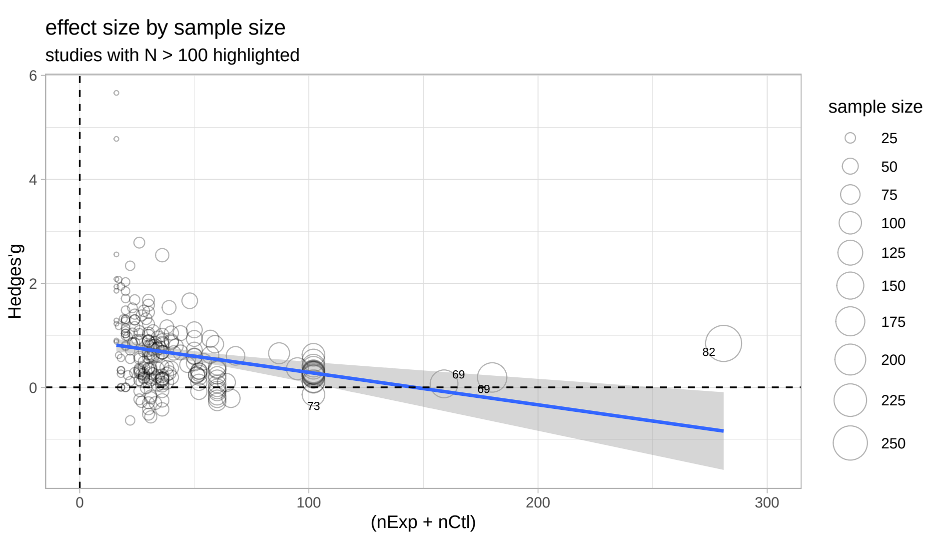
Cognitive_domain	examples
perception	Audio-Visual simultaneity judgment
	Audio-Visual temporal-order judgment
	Auditory Tone Location discrimination
	Auditory Tone Location discrimination - critical duration
	Baseline task (BAS)
	Baseline task (BAS)
	Binocular Rivalry - dynamic stim
	Binocular Rivalry - static stim
	Bissection task
	Choice RT - single task
	combiTVA
	Compound search - Target discrimination
	Compound search - Target discrimination
	Contrast Sensitivity
	Contrast Sensitivity - critical duration
	Crowding paradigm - acuity (T-alone discrimination accuracy)
	Crowding paradigm - crowding
	Flicker fusion
	Masked prime visibility - prime discrimination: categorize as larger / smaller t
	Masked priming - target discrimination: categorize as larger / smaller than ref
	Masking (backward colinear)
	Masking (backward orthogonal)
	Masking (forward and backward / lateral)
	Modified attentional-blink task (local)
	Modified attentional-blink task (local)
	Motion Perception (up/down, expansion/contraction, clockwise/anticlockwise)
	Motion Perception: radial (contraction)
	Motion Perception: radial (expansion)
	Orientation Identification
	Perceptual Discrimination RT
	Posner Name Identity
	Simple RT
	Temporal Order Judgment
	TVA whole
	UFOV - single&dual task / no distractors / peripheral task
	Visual Motion Direction discrimination
	Visual Motion Direction discrimination - critical duration
	Visual search (a la Chisholm)
motor control	Lane-keeping task
	Manual motion-tracking task
	Visuo-motor control task
bottom-up attention	ANT: Attentional Network Test
	ANT: Attentional Network Test
	ANT: Attentional Network Test
	ANT: Attentional Network Test
	classical Visual search (color)
	classical Visual search (orientation)
	Inattentional Blindness
	Modified Posner Cueing (exogenous cue)
	Posner (exogenous) Cue-Target
top-down attention	ANT: Attentional Network Test
	ANT: Attentional Network Test
	Antisaccade
	Attentional Blink
	Attentional Blink

Chapter 4

Effect Sizes

Note: These plots are just raw effect sizes, it is not the output of a meta-analytic model.
Effect sizes are NOT corrected for non-independence or weighted by variance or sample size.

4.1 Effect sizes by Sample Size



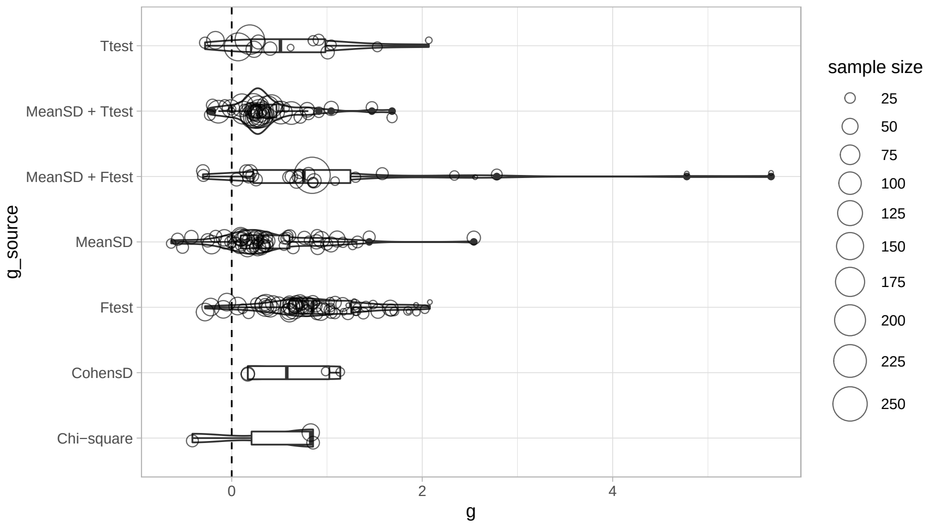
Note: studies with N > 100 are highlighted

Studies with N > 100

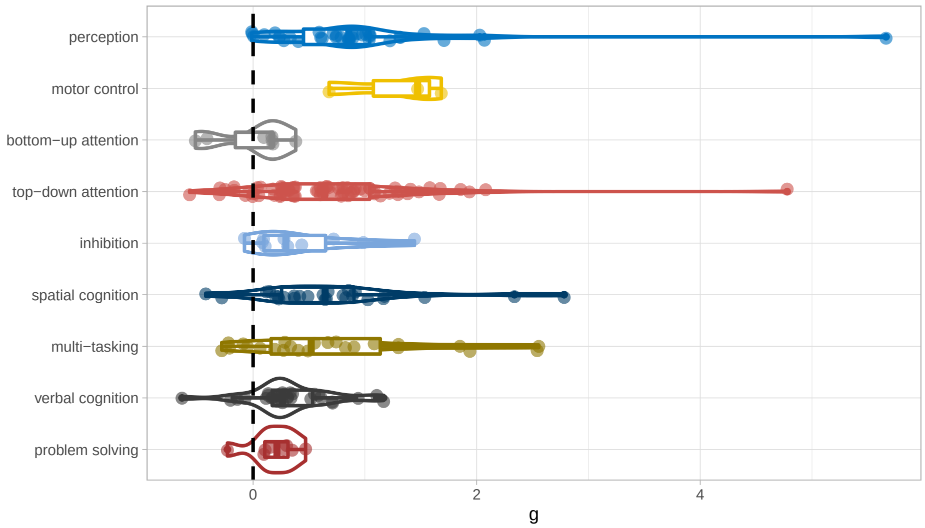
Click to expand!

Paper	Study	Cognitive_domain	Task
69	Stothart et al VSS poster 2014-EXP1: overt recruit	top-down attention	MOT
69	Stothart et al VSS poster 2014-EXP2: covert recruit	top-down attention	MOT
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	inhibition	SART
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	inhibition	Spatial str
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	problem solving	Letter sets
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	problem solving	Paper Fold
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	problem solving	RAVEN (F
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	spatial cognition	Matrix mo
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	spatial cognition	Symmetry
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	top-down attention	Antisaccad
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	top-down attention	Change de
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	top-down attention	Cued visua
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	top-down attention	Flanker tas
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	verbal cognition	Continuous
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	verbal cognition	Keeping tr
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	verbal cognition	Number se
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	verbal cognition	OSPAN
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	verbal cognition	Reading sp
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	spatial cognition	Rotation sp
73	Unsworth et al. 2015-EXP2 / extreme groups - reanalysis	verbal cognition	Visual Brie
82	Caroux 2016 - MALES ONLY	top-down attention	Visual sear

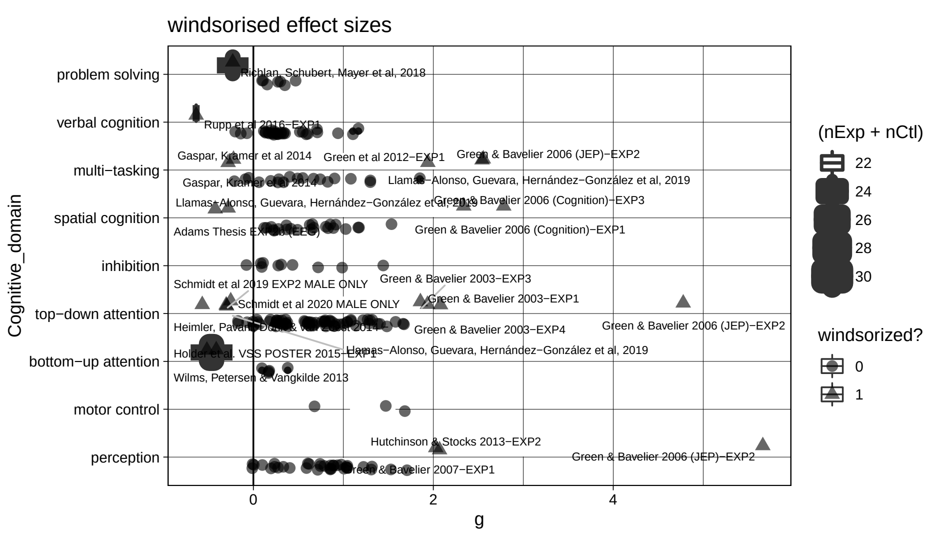
4.2 Effect sizes by Source



4.3 Effect sizes by Cognitive Domain



4.4 Examine outliers and Winsorize



currently 24 effects winsorized with this approach!

Winsorizing

Click to show Winsorized studies!

Show 10 entries Search:

	Paper	Study	Cognitive_domain	Task	g	es_win
1	2	Adams Thesis EXP2b (EEG)	spatial cognition	Mental Rotation	-0.280	-0.219
2	39	Gaspar, Kramer et al 2014	multi-tasking	Street Crossing - preparation time	-0.280	-0.219
3	39	Gaspar, Kramer et al 2014	multi-tasking	Auditory 2 back during street crossing (VR CAVE): dual task - single task cost	-0.221	-0.219
4	40	Green & Bavelier 2003-EXP1	top-down attention	Flanker task high load (lower cost = better)	2.081	1.856
5	40	Green & Bavelier 2003-EXP3	top-down attention	UFOV - single task / with distractors / peripheral task alone	1.857	1.856
6	40	Green & Bavelier 2003-EXP4	top-down attention	Attentional Blink	1.935	1.856
7	41	Green & Bavelier 2006 (Cognition)-EXP1	spatial cognition	Enumeration	2.783	1.856
8	41	Green & Bavelier 2006 (Cognition)-EXP3	spatial cognition	Enumeration (with MASK)	2.338	1.856
9	42	Green & Bavelier 2006 (JEP)-EXP2	perception	UFOV - single&dual task / no distractors / peripheral task	5.662	1.856
10	42	Green & Bavelier 2006 (JEP)-EXP2	top-down attention	UFOV - single&dual task / with distractors / peripheral task	4.778	1.856

Showing 1 to 10 of 24 entries Previous 1 2 3 Next

4.5 Final dataset

The analysis is based on 224 effect sizes (vs 194 effect sizes in Bediou et al. 2018). These ES's were extracted from 102 (vs. 89 in Bediou et al. 2018), published in 73 manuscripts (vs 73 in Bediou et al. 2018).

The following studies were included in the first MA but excluded in this new MA (see reason).

Reference	Reason for exclusion
Appelbaum et al. 2013	hours NVGP, gender ratio difference
Berard, Cain et al 2015	unmatched gender ratio
Bailey et al 2009; 2010; 2012…	hours AVGP (total)
Buckley et al. 2010	hours AVGP (range only)
Cain et al 2009; 2012; 2014	unmatched gender ratio
Donohue et al. 2012	hours AVGP (mean 3 h / week + expertise)
Dye et al 2009 Neuropsychologia	unmatched gender ratio (ADULT SAMPLE 18-22)
Dye et al 2010 ADULTS 18-22	unmatched gender ratio (ADULT SAMPLE 18-22)
Novak & Tassel 2015	cannot verify AVGP hours (see email exchanges)
Unsworth et al. 2015 EXP1	Unmatched gender ratio

The following manuscripts published after January 2015 were included:
list(image = as.raw(c(0x25, 0x50, 0x44, 0x46, 0x2d, 0x31, 0x2e, 0x34, 0x0a, 0x31, 0x20, 0x30, 0x20, 0x6f, 0x62, 0x6a, 0x0a, 0x3c, 0x3c, 0x0a, 0x2f, 0x54, 0x69, 0x74, 0x6c, 0x65, 0x20, 0x28, 0xfe, 0xff, 0x29, 0x0a, 0x2f, 0x43, 0x72, 0x65, 0x61, 0x74, 0x6f, 0x72, 0x20, 0x28, 0xfe, 0xff, 0x29, 0x0a, 0x2f, 0x50, 0x72, 0x6f, 0x64, 0x75, 0x63, 0x65, 0x72, 0x20, 0x28, 0xfe, 0xff, 0x00, 0x51, 0x00, 0x74, 0x00, 0x20, 0x00, 0x35, 0x00, 0x2e, 0x00, 0x35, 0x00, 0x2e, 0x00, 0x31, 0x29, 0x0a, 0x2f, 0x43, 0x72, 0x65, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x44, 0x61, 0x74, 0x65, 0x20, 0x28, 0x44, 0x3a, 0x32, 0x30, 0x32, 0x31, 0x30, 0x38, 0x30, 0x34, 0x31, 0x30, 0x31, 0x30, 0x31, 0x36, 0x29, 0x0a, 0x3e, 0x3e, 0x0a, 0x65, 0x6e, 0x64, 0x6f, 0x62, 0x6a, 0x0a, 0x32, 0x20, 0x30, 0x20, 0x6f, 0x62, 0x6a, 0x0a, 0x3c, 0x3c, 0x0a, 0x2f, 0x54, 0x79, 0x70, 0x65, 0x20, 0x2f, 0x43, 0x61, 0x74, 0x61, 0x6c, 0x6f, 0x67, 0x0a, 0x2f, 0x50, 0x61, 0x67, 0x65, 0x73, 0x20, 0x33, 0x20, 0x30, 0x20, 0x52, 0x0a, 0x3e, 0x3e, 0x0a, 0x65, 0x6e, 0x64, 0x6f, 0x62, 0x6a, 0x0a, 0x34, 0x20, 0x30, 0x20, 0x6f, 0x62, 0x6a, 0x0a, 0x3c, 0x3c, 0x0a, 0x2f, 0x54, 0x79, 0x70, 0x65, 0x20, 0x2f, 0x45, 0x78, 0x74, 0x47, 0x53, 0x74, 0x61, 0x74, 0x65, 0x0a, 0x2f, 0x53, 0x41, 0x20, 0x74, 0x72, 0x75, 0x65, 0x0a, 0x2f, 0x53, 0x4d, 0x20, 0x30, 0x2e, 0x30, 0x32, 0x0a, 0x2f, 0x63, 0x61, 0x20, 0x31, 0x2e, 0x30, 0x0a, 0x2f, 0x43, 0x41, 0x20, 0x31, 0x2e, 0x30, 0x0a, 0x2f, 0x41, 0x49, 0x53, 0x20, 0x66, 0x61, 0x6c, 0x73, 0x65, 0x0a, 0x2f, 0x53, 0x4d, 0x61, 0x73, 0x6b, 0x20, 0x2f, 0x4e, 0x6f, 0x6e, 0x65, 0x3e, 0x3e, 0x0a, 0x65, 0x6e, 0x64, 0x6f, 0x62, 0x6a, 0x0a, 0x35, 0x20, 0x30, 0x20, 0x6f, 0x62, 0x6a, 0x0a, 0x5b, 0x2f, 0x50, 0x61, 0x74, 0x74, 0x65, 0x72, 0x6e, 0x20, 0x2f, 0x44, 0x65, 0x76, 0x69, 0x63, 0x65, 0x52, 0x47, 0x42, 0x5d, 0x0a, 0x65, 0x6e, 0x64, 0x6f, 0x62, 0x6a, 0x0a, 0x37, 0x20, 0x30, 0x20, 0x6f, 0x62, 0x6a, 0x0a, 0x3c, 0x3c, 0x0a, 0x2f, 0x54, 0x79, 0x70, 0x65, 0x20, 0x2f, 0x58, 0x4f, 0x62, 0x6a, 0x65, 0x63, 0x74, 0x0a, 0x2f, 0x53, 0x75, 0x62, 0x74, 0x79, 0x70, 0x65, 0x20, 0x2f, 0x49, 0x6d, 0x61, 0x67, 0x65, 0x0a, 0x2f, 0x57, 0x69, 0x64, 0x74, 0x68, 0x20, 0x31, 0x39, 0x0a, 0x2f, 0x48, 0x65, 0x69, 0x67, 0x68, 0x74,

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0x76, 0x69, 0x63, 0x65, 0x47, 0x72, 0x61, 0x79, 0x0a, 0x2f, 0x4c, 0x65, 0x6e,
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0x6c, 0x74, 0x65, 0x72, 0x20, 0x2f, 0x46, 0x6c, 0x61, 0x74, 0x65, 0x44, 0x65,
0x63, 0x6f, 0x64, 0x65, 0x0a, 0x3e, 0x3e, 0x0a, 0x73, 0x74, 0x72, 0x65, 0x61,
0x6d, 0x0a, 0x78, 0x9c, 0x63, 0x60, 0x20, 0x05, 0x70, 0x4d, 0x60, 0x43, 0x17,
0x2a, 0xfd, 0x95, 0x8d, 0x26, 0xa2, 0xf5, 0xf8, 0xff, 0x6d, 0x65, 0x14, 0x11,
0xc6, 0xb9, 0xff, 0xff, 0xff, 0x9f, 0xc8, 0x88, 0x2c, 0xe4, 0xf8, 0x0e, 0x28, 0xf4,
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0x61, 0x6d, 0x0a, 0xff, 0xd8, 0xff, 0xe0, 0x00, 0x10, 0x4a, 0x46, 0x49, 0x46,
0x00, 0x01, 0x01, 0x01, 0x00, 0x48, 0x00, 0x48, 0x00, 0x00, 0xff, 0xdb, 0x00,
0x43, 0x00, 0x02, 0x01, 0x01, 0x02, 0x01, 0x01, 0x02, 0x02, 0x02, 0x02, 0x02,
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0x09, 0x08, 0x08, 0x0a, 0x08, 0x07, 0x07, 0x0a, 0x0d, 0x0a, 0x0a, 0x0b, 0x0c,
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	n_papers	n_studies	n_es
included in Bediou et al. 2018	57	83	173
New	16	19	51
TOTAL	**73**	**102**	**224**

0x37, 0x32, 0x20, 0x30, 0x30, 0x30, 0x30, 0x30, 0x20, 0x6e, 0x20, 0x0a, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x34, 0x34, 0x38, 0x32, 0x20, 0x30, 0x30, 0x30, 0x30, 0x30, 0x20, 0x6e, 0x20, 0x0a, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x34, 0x37, 0x31, 0x36, 0x20, 0x30, 0x30, 0x30, 0x30, 0x30, 0x20, 0x6e, 0x20, 0x0a, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x37, 0x36, 0x39, 0x33, 0x20, 0x30, 0x30, 0x30, 0x30, 0x30, 0x20, 0x6e, 0x20, 0x0a, 0x30, 0x30, 0x30, 0x30, 0x30, 0x30, 0x37, 0x39, 0x35, 0x32, 0x20, 0x30, 0x30, 0x30, 0x30, 0x30, 0x20, 0x6e, 0x20, 0x0a, 0x30, 0x30, 0x30, 0x30, 0x30, 0x31, 0x33, 0x34, 0x34, 0x32, 0x20, 0x30, 0x30, 0x30, 0x30, 0x30, 0x20, 0x6e, 0x20, 0x0a, 0x30, 0x30, 0x30, 0x30, 0x30, 0x31, 0x33, 0x38, 0x36, 0x33, 0x20, 0x30, 0x30, 0x30, 0x30, 0x30, 0x20, 0x6e, 0x20, 0x0a, 0x30, 0x30, 0x30, 0x30, 0x30, 0x31, 0x33, 0x34, 0x32, 0x31, 0x20, 0x30, 0x30, 0x30, 0x30, 0x30, 0x20, 0x6e, 0x20, 0x0a, 0x74, 0x72, 0x61, 0x69, 0x6c, 0x65, 0x72, 0x0a, 0x3c, 0x3c, 0x0a, 0x2f, 0x53, 0x69, 0x7a, 0x65, 0x20, 0x33, 0x30, 0x0a, 0x2f, 0x49, 0x6e, 0x66, 0x6f, 0x20, 0x31, 0x20, 0x30, 0x20, 0x52, 0x0a, 0x2f, 0x52, 0x6f, 0x6f, 0x74, 0x20, 0x32, 0x20, 0x30, 0x20, 0x52, 0x0a, 0x3e, 0x3e, 0x0a, 0x73, 0x74, 0x61, 0x72, 0x74, 0x78, 0x72, 0x65, 0x66, 0x0a, 0x31, 0x34, 0x38, 0x37, 0x36, 0x0a, 0x25, 0x25, 0x45, 0x4f, 0x46, 0x0a)),
extension = ".pdf", url = NULL)

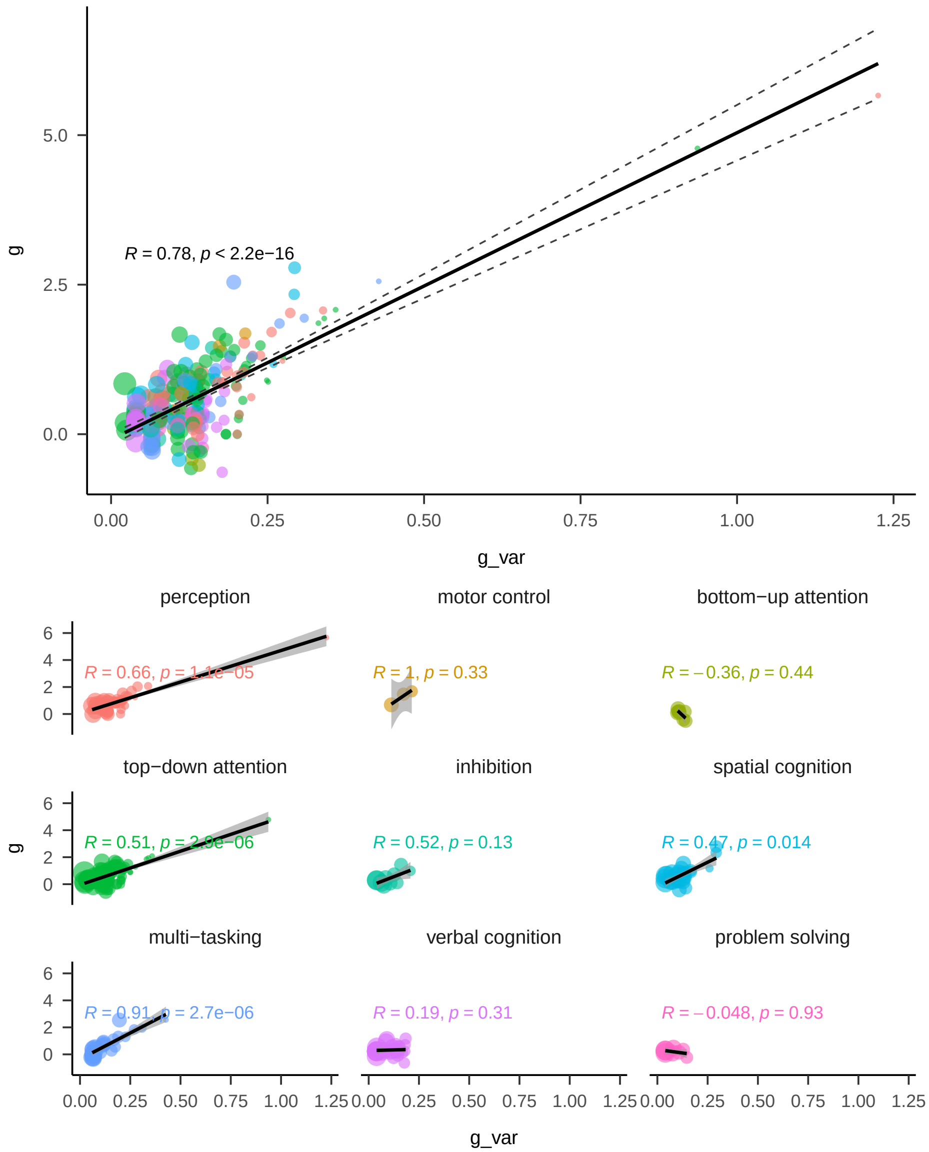
notes: Studied by Föcker et al. (2018, 2019, in prep) were included in Bediou et al. 2018 in their unpublished versions.

Old vs New data (compared to Bediou et al. 2018)
The table below indicates how many ESs, Studies and Papers were included in Bediou et al. 2018, and how many are new.

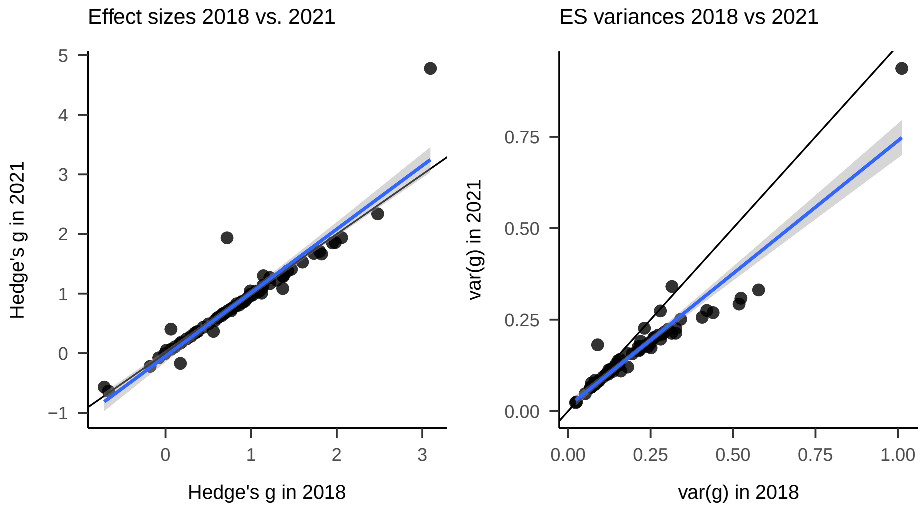
4.6 Small study effect?

Publication bias detection and correction relies on regression methods that relate effect sizes with their precision (most often using sample size, standard error or variance).

The figure below shows the relationship between effect size and effect size variance (which is related to sample size). Effect sizes are colored by cognitive domain.


R = 0.78, p < 2.2e−16
g
g_var
5.0
2.5
0.0
0.00
0.25
0.50
0.75
1.00
1.25
perception
R = 0.66, p = 1.1e−05
motor control
R = 1, p = 0.33
bottom−up attention
R = −0.36, p = 0.44
top−down attention
R = 0.51, p = 2.9e−06
inhibition
R = 0.52, p = 0.13
spatial cognition
R = 0.47, p = 0.014
multi−tasking
R = 0.91, p = 2.7e−06
verbal cognition
R = 0.19, p = 0.31
problem solving
R = −0.048, p = 0.93
6
4
2
0

4.7 2018 vs 2021



Chapter 5

Meta-analysis

> TODO: improve code for moderator and pub bias (loop? function? check Pustejobsky's code)

Important Notes:
- All analyses are done on the *winsorized* dataset (i.e., extreme values replaced distribution boundaries)
- All clustering is done at the *manuscript* level.
=> This can be changed! Let me know if we should chat about these points!

5.1 Overall estimate

We use a multilevel meta-analytic model with robust variance estimates (RVE) for correlated and hierarchical effects (CHE) with small sample correction. The default correlation is set to 0.8 (default in RVE), and we use sensitivity analyses (see below) to test the impact of different values. The model includes a random factor for Papers and one for each effect sizes nested in papers.

5.1.1 Multilevel model (without RVE)

```
##
## Multivariate Meta-Analysis Model (k = 224; method: REML)
##
## Variance Components:
##
##               estim    sqrt  nlvls  fixed       factor
## sigma^2.1  0.0191  0.1382     73     no        Paper
## sigma^2.2  0.1200  0.3464    224     no  Paper/ES_ID
##
## Test for Heterogeneity:
```

```
## Q(df = 223) = 1007.1261, p-val < .0001
##
## Model Results:
##
## estimate      se     tval   df    pval   ci.lb   ci.ub
##   0.6227  0.0512  12.1651  223  <.0001  0.5218  0.7236  ***
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Note that this model reports model-based (not robust) standard errors.

The MLMA model reveals significant effect of AVG experience on cognition, with AVGPs outperforming NVGPs on cognitive tasks.

- Overall estimate: $g = 0.623$, $p = <.001$
- Residual heterogeneity is significant ($QE(223) = 1007.126$, $p = <.001$), suggesting possible moderating variables!

5.1.2 CHE model: Multilevel model with cluster-level RVE

This new model for Correlated and Hierarchical Effects (CHE) is based on recent work from Pustejovsky & Tipton (2021) as an extension of the range of RVE models. The CHE model was shown to better capture the types of data structure that occur in practice and –under some circumstances– to improve the efficiency of meta-regression estimates.

```
##     Coef. Estimate     SE t-stat d.f. p-val (Satt) Sig.
## 1 intrcpt    0.623 0.0513   12.1 59.6       <0.001  ***
```

The cluster RVE is applied to adjust degrees of freedom and confidence intervals. The CHE model usually gives smaller SE indicating improved precision.

5.1.3 Standard RVE models with correlated or hierarchical weights

For comparison with Bediou et al. 2018, we ran standard RVE models with correlated and hierarchical weights.

```
## RVE: Correlated Effects Model with Small-Sample Corrections
##
## Model: es_win ~ 1
##
## Number of studies = 73
## Number of outcomes = 224 (min = 1 , mean = 3.07 , median = 2 , max = 18 )
## Rho = 0.8
## I.sq = 53.6
```

```
## Tau.sq = 0.13
##
##                  Estimate StdErr t-value  dfs P(|t|>) 95% CI.L 95% CI.U Sig
## 1 X.Intercept.    0.667 0.0513      13 67.9       0    0.565     0.77 ***
## ---
## Signif. codes: < .01 *** < .05 ** < .10 *
## ---
## Note: If df < 4, do not trust the results
```

```
## RVE: Hierarchical Effects Model with Small-Sample Corrections
##
## Model: es_win ~ 1
##
## Number of clusters = 73
## Number of outcomes = 224 (min = 1 , mean = 3.07 , median = 2 , max = 18 )
## Omega.sq = 0
## Tau.sq = 0.11
##
##                  Estimate StdErr t-value  dfs       P(|t|>) 95% CI.L 95% CI.U Sig
## 1 X.Intercept.    0.527 0.0614    8.59 27.2 0.00000000312    0.401    0.653 ***
## ---
## Signif. codes: < .01 *** < .05 ** < .10 *
## ---
## Note: If df < 4, do not trust the results
```

Sensitivity analysis
We test impact of different values of rho (correlation among dependent ES's) on the overall estimates using a standard RVE model with correlated weights.

```
## RVE: Correlated Effects Model with Small-Sample Corrections
## Model: es_win ~ 1
##
## Sensitivity Analysis
##
##                            Rho = 0 Rho = 0.2 Rho = 0.4 Rho = 0.6 Rho = 0.8
##  X.Intercept. Coefficient 0.6673  0.6674    0.6674    0.6674    0.6675
##               Std. Error  0.0513  0.0513    0.0513    0.0513    0.0513
##  Tau.sq       Estimate    0.1291  0.1292    0.1293    0.1295    0.1296
##  Rho = 1
##  0.6675
##  0.0513
##  0.1297
```

- Overall estimate: $g = 0.667$, $p = <.001$
- Residual heterogeneity is significant (QE (223) = 1007.126, $p = <.001$), suggesting possible moderating variables!

Model	beta	SE	CI_L	CI_U	tstat	df	pSignif
RVE correlated	0.667	0.051	0.565	0.770	13.01	67.9	<.001
RVE hierarchical	0.527	0.061	0.401	0.653	8.59	27.2	<.001
CHE	**0.623**	**0.051**	**0.520**	**0.725**	**12.15**	**59.6**	**<.001**
univariate	0.669	0.059	0.554	0.784	11.39	73.0	<.001

5.1.4 univariate meta-analysis (for pub bias)

We also ran univariate models to apply the more classical methods for detection and correction of publication bias. Because univariate models assume independent effect sizes, we first randomly selected one effect size per study (paper).

```
##
## Random-Effects Model (k = 73; tau^2 estimator: REML)
##
## tau^2 (estimated amount of total heterogeneity): 0.1214 (SE = 0.0408)
## tau (square root of estimated tau^2 value):      0.3485
## I^2 (total heterogeneity / total variability):   52.39%
## H^2 (total variability / sampling variability):  2.10
##
## Test for Heterogeneity:
## Q(df = 72) = 151.0859, p-val < .0001
##
## Model Results:
##
## estimate      se     zval    pval   ci.lb   ci.ub
##   0.6689  0.0587  11.3909  <.0001  0.5538  0.7840  ***
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

5.1.5 Summary of overall effects

Note. We pre-registered the CHE model as our primary model; other models are presented to show sensitivity of our results to various meta-analytic models.

5.2 Moderator analysis

Moderator analysis is based on the multilevel model (i.e. mlma **WITHOUT RVE**) because the Wald_test is not compatible with the CHE model (i.e., mlma with RVE)…

Our model includes moderators:
- Cognitive domain (9 levels)
- DV type: speed, accuracy (**should we relabel as** *performance* **measure_?**)

moderator	test	Fstat	delta	df_num	df_denom	p_val
Cognitive domain	HTZ	0.575	1.000	1	1.18	0.570
DV type	HTZ	2.260	0.488	8	6.67	0.155
Effect	HTZ	0.021	1.000	1	21.36	0.885
Recruitment	**HTZ**	**4.573**	**1.000**	**1**	**7.71**	**0.066**

- Effect: main (e.g., overall performance), interaction (e.g., difference score)
- Recruitment: overt, covert

5.2.1 Compare RVE, CHE and SCE models

Notes:
- RVE = Robust Variance Estimate (effect sizes clustered by paper, correlated weights)
- CHE = Correlated Hierarchical Weights (random effects multilevel model with RVE)
- SCE = Subgroup Correlated Effects (alternative to running meta-analyses for each subgroup)
=> SCE RANDOM EFFECTS TO BE CHECKED BY MELISSA !

This analysis focuses on cognitive domain (primary moderator) and controls for other (secondary) moderators. The magnitude of the obtained estimates depends on the choice of reference levels for secondary moderators.
The Wald Test of moderator effects test the relative differences between levels and is thus not sensitive to reference levels. However, to test if individual estimate differs from zero, we need to correct each estimate using the relative frequency of each moderator level in the dataset.

All models include the following moderators and reference levels:
- Cognitive domain: reference = perception
- DV type: reference = accuracy
- Effect type: reference = interaction
- Recruitment: reference = covert

Analyses of moderator effects are based on CHE model.
Exploratory analyses using Subgroup Correlated Effects are also presented.

5.2.2 Tests of moderator effects (using CHE model)

5.2.3 Estimates for each moderator level (different from zero?)

Notes: Estimates with degrees of freedom under 4 should not be interpreted and are thus highlighted.

- None of the moderators showed significant moderating influence according to AHT-F test (using *clubSandwich::Wald_test*) on the multilevel model (i.e., **without RVE**) except a marginal effect of recruitment.

- AVGPs outperformed NVGPs in irrespective of cognitive domain, DV type, effect or recruitment method:
  - Cognitive domain: stronger effects for perception and multitasking, followed by top-down attention, spatial cognition and inhibition, and then verbal cognition. Marginal effect for problem solving and unreliable estimates (low df) for motor control and bottom-up attention.
  - DV type: significant effects on speed and accuracy.
  - Effect: significant group differences for both overall (main effect) performance measures and difference scores (interactions).
  - Significant effect in both overtly and covertly recruited participants, with numerically larger effect for overt vs. covert.
- Residual heterogeneity is still significant ($QE(212) = 915.77$, $p =$), suggesting additional moderating variables may be involved ! => Additional analyses are needed to understand where this comes from:
  - publication bias / small study effect (adding variance or sda to moderator models?)
  - lab / joint publication group
  - single moderator models

5.3 Publication bias

Numerous techniques exist for detecting and correcting publication bias. While methods for detecting publication bias (or small study effects) have improved largely over the past decades, it is not the case of correction methods such that estimating a unbiased (or publication-bias-corrected) estimate remains a challenge. The numerous methods available to date provide very heterogeneous estimates and will thus be reported in the form of sensitivity analysis as as recently recommended by Mathur & VanderWeele (2020).

Detection of publication bias was done for both:
- The overall effect (intercept only model) and
- The full model including all moderators

Our main publication bias detection approach is based on Egger's regression test with a modified precision covariate (Pustejovsky & Rodgers, 2019).

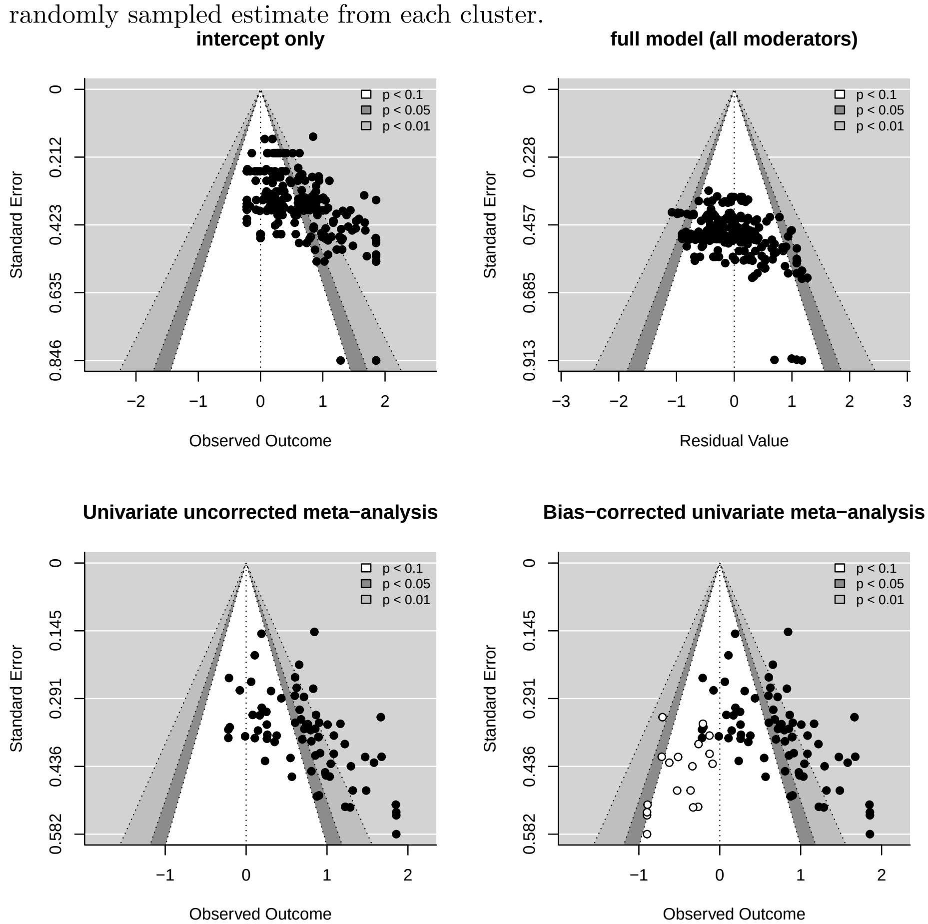
In addition, we use a number of additional methods to estimate the adjusted effect, because the estimates obtained from Eggers's test (and PET-PEESE) are known to be unreliable.

The best methods for estimating the publication bias (or small-study) adjusted effect is based on the 3-parameter model selection (see below).

5.3.1 (contour-enhanced) Funnel plots

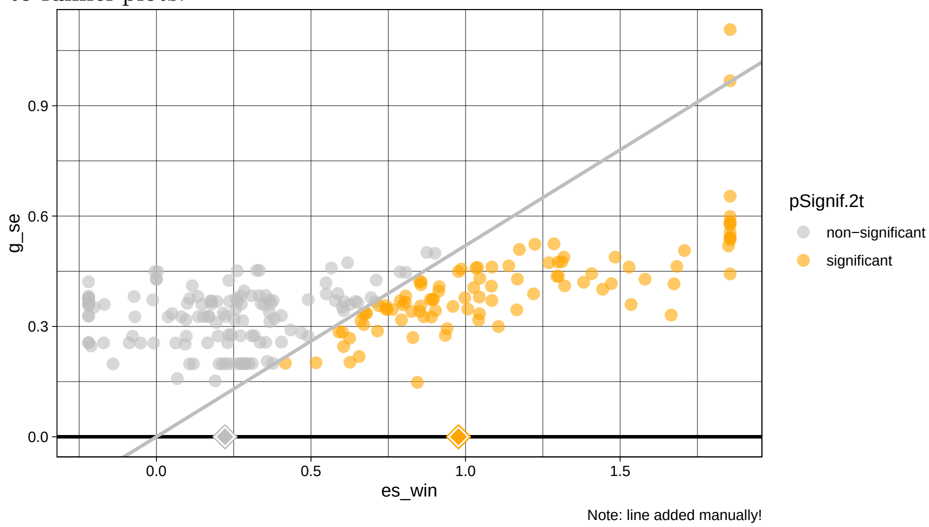
Funnel plots are based on multilevel models *without RVE*, first for overall effect (i.e., intercept only) and then for the full model (i.e., with all moderators).

In order to use trim and fill, we also conducted a univariate model using one randomly sampled estimate from each cluster.



5.3.2 Significance funnel plot (Mathur & VanderWeele, 2020)

This new type of graphical illustration was introduced recently as an alternative to funnel plots.



Note: the line was drawn manually (i.e., no classification applied) with intercept = 0 and slope = 0.52.

Non-affirmative studies have smaller point estimates than affirmative studies, suggesting that results may be sensitive to publication bias.

5.3.3 Egger's regression with modified precision covariate

This method is based on work from Pustejovsky and Rodgers (2018), and Rodgers & Pustejovsky (2020).
The new (Egger's sandwich) test has been shown to maintain type I error (unlike the inflated type I errors commonly reported with other methods).

> Quote from Pustejovsky & Rodgers 2020, page 36:
> *"the Egger Sandwich is an acceptable, valid test for meta-analysis, but it must be interpreted with caution both because it has limited power to detect funnel plot asymmetry and because, in practice, such asymmetry may have other causes besides selective reporting."*
> *"The Funnel Plot Test with MLMA maintains Type I error across nearly all conditions, and like the Egger Sandwich, it lacks power to detect funnel plot asymmetry."*

We ran both Egger's Sandwich and Egger's MLMA models on both overall effect (intercept only) and full model with all moderators.

method	model	term	b	se	t	dfs	p	ci.lb	ci.ub
Egger CHE (MLMA + RVE)	NULL	intrcpt	-0.043	0.182	-0.234	13.4	0.819	-0.434	0.349
Egger CHE (MLMA + RVE)	**NULL**	**sda**	**1.897**	**0.533**	**3.560**	**18.3**	**0.002**	**0.779**	**3.014**
Egger CHE (MLMA + RVE)	FULL	intrcpt	0.025	0.200	0.125	19.5	0.902	-0.394	0.444
Egger CHE (MLMA + RVE)	**FULL**	**sda**	**1.793**	**0.648**	**2.767**	**22.3**	**0.011**	**0.450**	**3.136**
Egger Sandwich (RVE)	NULL	intrcpt	-0.028	0.258	-0.109	12.0	0.915	-0.591	0.535
Egger Sandwich (RVE)	**NULL**	**sda**	**2.043**	**0.729**	**2.803**	**14.9**	**0.013**	**0.488**	**3.597**
Egger Sandwich (RVE)	FULL	intrcpt	0.156	0.243	0.640	23.5	0.528	-0.347	0.658
Egger Sandwich (RVE)	**FULL**	**sda**	**1.906**	**0.732**	**2.605**	**15.0**	**0.020**	**0.346**	**3.466**

note: p values are based on one-sided test as the Egger's Sandwich test is done to look at the slope of missing negative effects on the left side of the funnel plot.

Summary:

- The slope (sda) is significant indicating significant publication bias.

- The Intercept is not a reliable estimate of the bias-corrected effect (but shows how adding publication bias / small study affects the estimate).

- The other estimates can be ignored too as they are sensitive to choice of reference levels!

- Surprisingly, heterogeneity is still highly significant, even when including all moderators!
  => subgroup analyses?
  => moderators lab / joint publication group?
  => other suggestions...?

5.3.4 PET-PEESE

Here, we applied PET and PEESE to our multilevel model with cluster robust variance (CHE model).
For PEESE, we used the modified precision estimate because it increases precision.

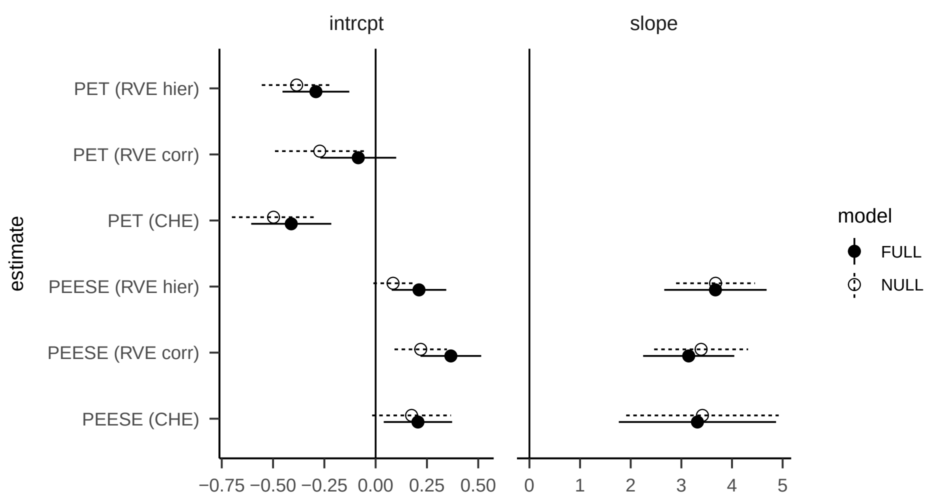
For comparison with Bediou et al., 2018, we also applied PET and PEESE to standard RVE models hierarchical weights and obtained similar results. In addition to the hierarchical weights used in Bediou et al. 2018, we also use correlated weights because they have been shown to perform significantly better in most situations.

Again, we ran the analysis both on the overall effect (i.e., intercept only) model and on the full model with all moderators.

Following Stanley & Doucouliagos 2013, we use the conditional PET-PEESE estimate as follows:
- If PET estimate is significant, we use PEESE estimate.
- If PET is NS, then we use PET estimate.

Note that this approach has been extensively criticized for its limitations, including by the authors themselves.
Melissa recommended to drop PET-PEESE entirely because it is known to inflate type I error and has been consistently outperformed by the new precision estimate used by Egger Sandwich. I left them for comparison with Bediou et al. 2018.

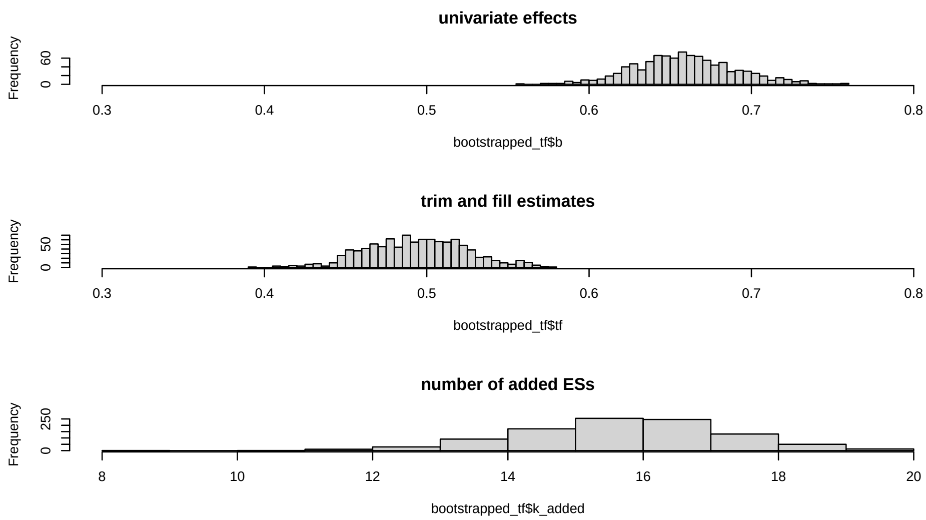
method	model	term	b	se	t	dfs	p	ci.lb
PET (RVE hier)	NULL	intrcpt	-0.385	0.170	-2.262	6.26	0.063	-0.797
	FULL	intrcpt	-0.291	0.163	-1.789	24.09	0.086	-0.627
PET (RVE corr)	NULL	intrcpt	-0.272	0.218	-1.247	14.73	0.232	-0.738
	FULL	intrcpt	-0.085	0.185	-0.458	23.79	0.651	-0.467
PET (CHE)	**NULL**	**intrcpt**	**-0.498**	**0.203**	**-2.454**	**15.87**	**0.026**	**-0.928**
	FULL	**intrcpt**	**-0.411**	**0.195**	**-2.108**	**20.56**	**0.048**	**-0.818**
PEESE (RVE hier)	NULL	intrcpt	0.085	0.096	0.885	6.68	0.407	-0.144
	FULL	intrcpt	0.211	0.133	1.589	22.09	0.126	-0.064
PEESE (RVE hier)	**NULL**	**slope**	**3.676**	**0.780**	**4.714**	**7.42**	**0.002**	**1.853**
	FULL	**slope**	**3.673**	**1.011**	**3.634**	**7.00**	**0.008**	**1.283**
PEESE (RVE corr)	NULL	intrcpt	0.220	0.128	1.719	12.71	0.110	-0.057
PEESE (RVE corr)	**FULL**	**intrcpt**	**0.367**	**0.148**	**2.478**	**18.24**	**0.023**	**0.056**
	NULL	**slope**	**3.390**	**0.928**	**3.654**	**7.82**	**0.007**	**1.242**
	FULL	**slope**	**3.145**	**0.900**	**3.494**	**7.69**	**0.009**	**1.055**
PEESE (CHE)	NULL	intrcpt	0.175	0.192	0.911	10.41	0.383	-0.251
	FULL	intrcpt	0.206	0.167	1.236	18.45	0.232	-0.144
	NULL	slope	3.417	1.506	2.268	5.75	0.066	-0.309
	FULL	slope	3.318	1.553	2.136	5.63	0.080	-0.544



5.3.5 Bootstraped estimates for univariate analyses

Trim and fill, p-uniform and 3-PSM work only with independent effect sizes. In order to run these analyses, we thus randomly picked one effect size per study (i.e. paper).
To verify that this random sampling does not introduce bias, we first checked the distribution of the overall effect obtained from 1000 bootstrapped samples of one effect size per paper.

```
##      term     b     se ci.lb ci.ub
## 1 intrcpt 0.494 0.0307 0.433 0.558
```



The univariate meta-analysis of 73 randomly selected independent effect sizes revealed an average overall effect of *mean* $g = 0.659$ ($SD = 0.031$)

5.3.6 Bootstrapped trim and fill (Duval & Tweedie, 2001)

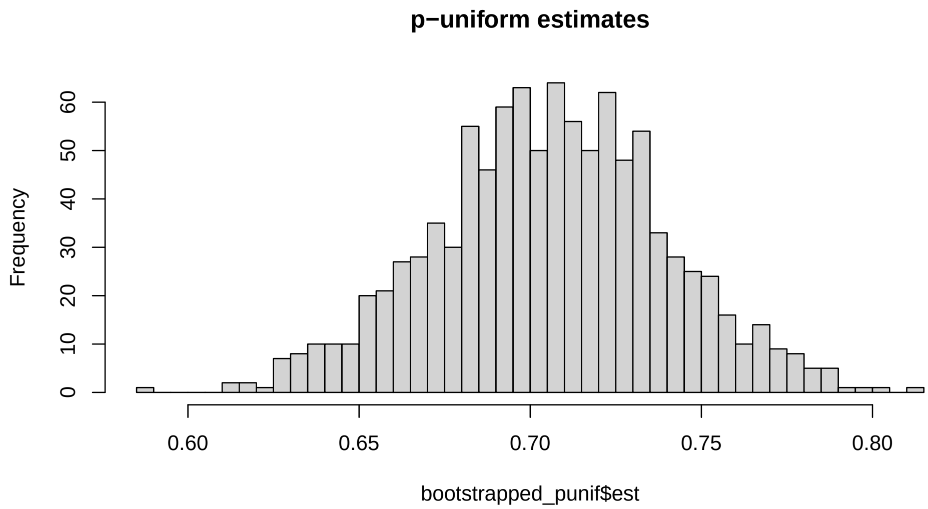
Across the 1000 bootstrapped samples, trim and fill analysis imputed between 8 and 20 additional effects on the left side of the funnel plot (median = 16), in order to correct for its asymmetry.

These additional studies decreased the overall estimate to a mean of $g = 0.494$ ($SD = 0.031$), but did not alter significance *all p's* $< .001$).

5.3.7 P-Uniform (van Assen, van Aert & Wicherts, 2015)

p-uniform is fundamentally similar to a p-curve that estimates the true effect using only significant effects. This method is not without limitations; it tends to overestimate effect sizes when heterogeneity is moderate to large, and is insensitive to p-values that are close to significance, or in the presence of p-hacking (Van Aerts, Wicherts & van Assen, 2016).

```
##      term     b     se ci.lb ci.ub
## 1 intrcpt 0.706 0.0338 0.637 0.772
```

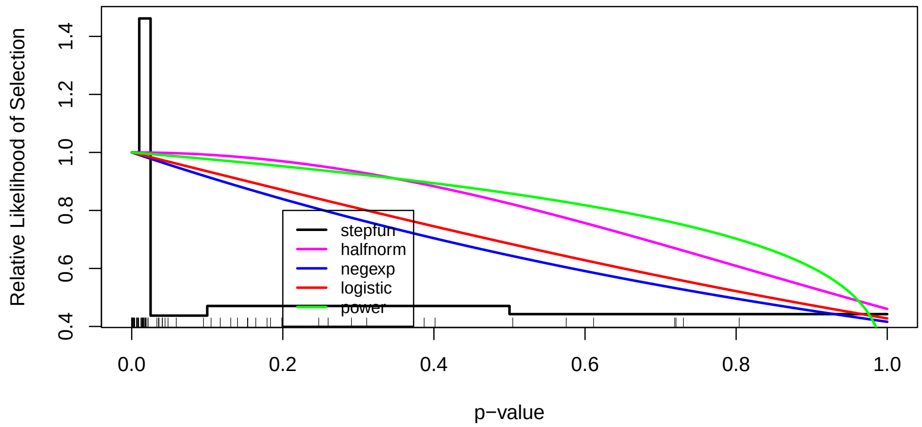


Studies with lower p values are observed less often than expected, whereas studies with high p values are more frequent than expected. Yet, the test of publication bias is not significant (pval = 1).

5.3.8 3-Parameter Selection Model (3PSM, Hedges & Vevea 1996).

Selection models are a general class of models that attempt to model the process by which the studies included in a meta-analysis may have been influenced by some form of publication bias. If a particular selection model is an adequate approximation for the underlying selection process, then the model provides estimates of the parameters of interest (e.g., the average true outcome and the amount of heterogeneity in the true outcomes) that are 'corrected' for this selection process (i.e., they are estimates of the parameters in the population of studies before any selection has taken place).

PSM Using selmodel function from metafor
This function allows to test different models.

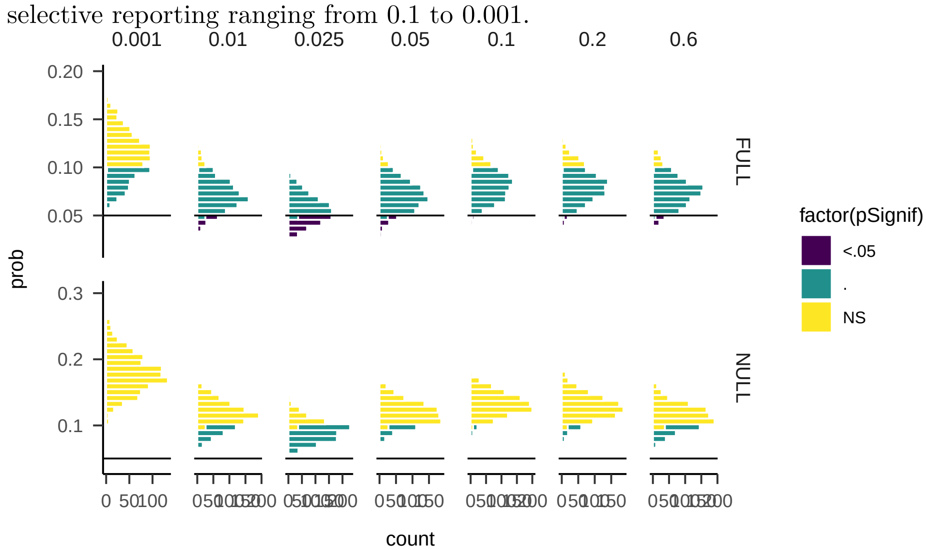


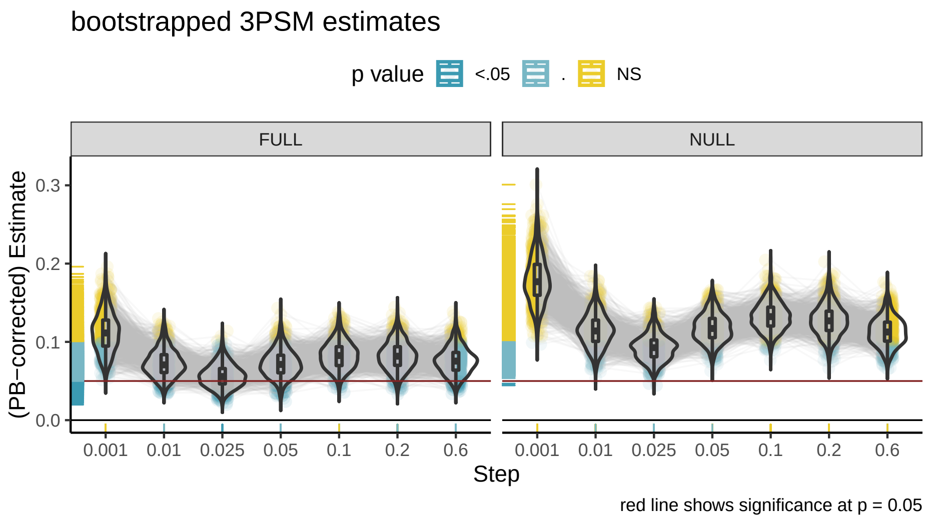
Colours show different (model-based) selective reporting biases:
- Negexpm and logistic selection give identical results.
- Step, halfnorm and Power give different results.

3-PSM Using weightfunc from weightr

Here we focus on the 3-PSM approach, which models publication bias with 3-parameters. The first one represents how much less likely a non-significant result is to be published than a significant result. The other two parameters represent the estimated bias-adjusted mean effect and the estimated heterogeneity of the effects.

Below we plot the distribution of estimates corrected for publication bias that are obtained from 100 bootstrapped samples with different thresholds for selective reporting ranging from 0.1 to 0.001.

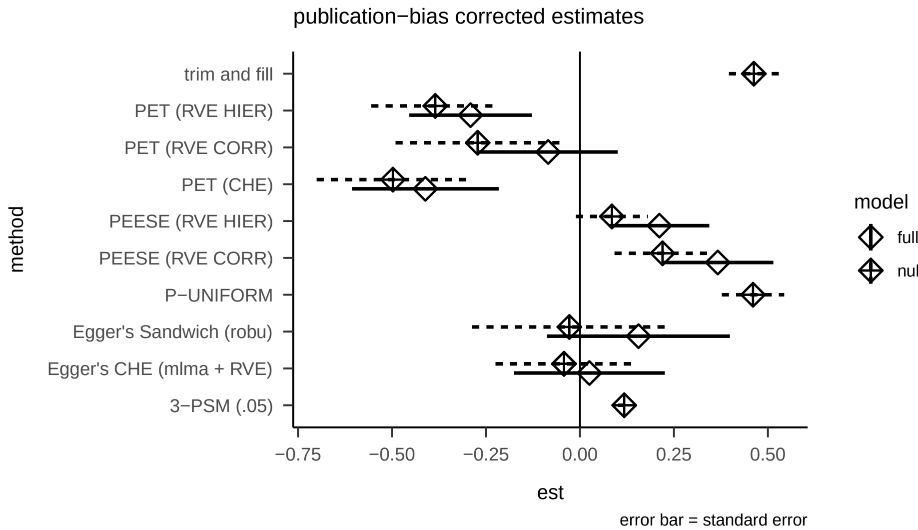



bootstrapped 3PSM estimates
p value
<.05
.
NS
FULL
NULL
(PB−corrected) Estimate
0.0
0.1
0.2
0.3
0.001
0.01
0.025
0.05
0.1
0.2
0.6
Step
red line shows significance at p = 0.05

5.3.9 Publication-bias-corrected estimates obtained from regression methods

method	model	term	b	se	ci.lb	ci.ub	t	dfs	
PET (CHE)	NULL	intrcpt	-0.498	0.203	-0.928	-0.067	-2.454	15.87	0.02
	FULL	intrcpt	-0.411	0.195	-0.818	-0.005	-2.108	20.56	0.04
PET (RVE hier)	***NULL***	***intrcpt***	***-0.385***	***0.170***	***-0.797***	***0.027***	***-2.262***	***6.26***	***0.06***
PET (RVE hier)	FULL	intrcpt	-0.291	0.163	-0.627	0.045	-1.789	24.09	0.08
PET (RVE corr)	NULL	intrcpt	-0.272	0.218	-0.738	0.194	-1.247	14.73	0.23
	FULL	intrcpt	-0.085	0.185	-0.467	0.297	-0.458	23.79	0.65
Egger CHE (MLMA + RVE)	NULL	intrcpt	-0.043	0.182	-0.434	0.349	-0.234	13.35	0.81
Egger Sandwich (RVE)	***NULL***	***intrcpt***	***-0.028***	***0.258***	***-0.591***	***0.535***	***-0.109***	***12.00***	***0.91***
Egger CHE (MLMA + RVE)	FULL	intrcpt	0.025	0.200	-0.394	0.444	0.125	19.51	0.90
3-PSM	***FULL***	***intrcpt***	***0.079***	***0.024***	***0.040***	***0.136***			
PEESE (RVE hier)	NULL	intrcpt	0.085	0.096	-0.144	0.314	0.885	6.68	0.40
3-PSM	***NULL***	***intrcpt***	***0.125***	***0.032***	***0.074***	***0.207***			
Egger Sandwich (RVE)	FULL	intrcpt	0.156	0.243	-0.347	0.658	0.640	23.51	0.52
PEESE (CHE)	NULL	intrcpt	0.175	0.192	-0.251	0.601	0.911	10.41	0.38
PEESE (CHE)	***FULL***	***intrcpt***	***0.206***	***0.167***	***-0.144***	***0.556***	***1.236***	***18.45***	***0.23***
PEESE (RVE hier)	FULL	intrcpt	0.211	0.133	-0.064	0.487	1.589	22.09	0.12
PEESE (RVE corr)	NULL	intrcpt	0.220	0.128	-0.057	0.496	1.719	12.71	0.11
PEESE (RVE corr)	***FULL***	***intrcpt***	***0.367***	***0.148***	***0.056***	***0.677***	***2.478***	***18.24***	***0.02***
trim and fill	NULL	intrcpt	0.494	0.031	0.433	0.558			
p-uniform		intrcpt	0.706	0.034	0.637	0.772			
Egger CHE (MLMA + RVE)	FULL	sda	1.793	0.648	0.450	3.136	2.767	22.32	0.01
	NULL	sda	1.897	0.533	0.779	3.014	3.560	18.33	0.00
Egger Sandwich (RVE)	FULL	sda	1.906	0.732	0.346	3.466	2.605	14.96	0.02
	NULL	sda	2.043	0.729	0.488	3.597	2.803	14.88	0.01
PEESE (RVE corr)	FULL	slope	3.145	0.900	1.055	5.235	3.494	7.69	0.00
PEESE (CHE)		slope	3.318	1.553	-0.544	7.179	2.136	5.63	0.08
PEESE (RVE corr)	NULL	slope	3.390	0.928	1.242	5.539	3.654	7.82	0.00
PEESE (CHE)		slope	3.417	1.506	-0.309	7.142	2.268	5.75	0.06
PEESE (RVE hier)	FULL	slope	3.673	1.011	1.283	6.063	3.634	7.00	0.00
	NULL	slope	3.676	0.780	1.853	5.498	4.714	7.42	0.00

Note: models are sorted from lower to higher estimate; background colour differentiates between full and null models.
- Trim and fill, p-uniform and 3-PSM rely on independent effect sizes (randomly selected from each paper).
- p values rely on different tests depending on the exact publication bias method and model used.
- For p-uniform, SE corresponds to the difference between the upper and lower bounds of confidence interval.
- For 3-PSM, the mean is the average and the SE is the standard deviation of estimates across 100 bootstrapped samples.



- Across all analyses, the slope (tests of small-study effect / publication bias) was always significant.

- The unbiased or corrected (i.e. publication-bias free) estimates vary tremendously and are thus reported as a form of a sensitivity analysis.

Chapter 6

Final Words

We have finished a nice book.

Chapter 7

TO DO's / exploratory analyses

7.1 Additional subgroup analyses with moderators and precision estimate to find

the source of heterogeneity (and small-study effect).

7.2 Moderator Joint Publication Group

Not sure how to do the clustering…
We could parse the text and focus on surnames?

Show 10 entries Search:

1	Adams, D.M.
2	Bavelier, D., Achtman, R.L., Mani, M., & Föcker, J.
3	Bavelier, D., Cohen, J., & Bailey, S.
4	Bejjanki, V. R., Zhang, R., Li, R., Pouget, A., Green, C. S., Lu, Z. L., & Bavelier, D.
5	Blacker, K. J., & Curby, K. M.
6	Cain, M. S., & Mitroff, S. R.
7	Cardoso-Leite, P., Kludt, R., Vignola, G., Ma, W. J., Green, C. S., & Bavelier, D.
8	Castel, A. D., Pratt, J., & Drummond, E.
9	Chisholm, J. D., Hickey, C., Theeuwes, J., & Kingstone, A.
10	Chisholm, J. D., & Kingstone, A.

Showing 1 to 10 of 65 entries Previous 1 2 3 4 5 6 7 Next

Cognitive sub-domains
The following spatial and verbal tasks with a working-memory component will

be re-coded as measuring working memory instead of measuring spatial vs verbal skills.

Cognitive_domain	SubDomain	examples
perception	speed of processing	Baseline task (BAS)
		Perceptual Discrimination RT
		Simple RT
spatial cognition	WM	4/8 maze task
		Change detection - Varying the cue-to-memory-array delay
		Change detection - Varying the test-array-to-cue delay (Ta
		Color wheel task
		Corsi block-tapping task (CBTT) single
		Enumeration
		Filter task
		N-Back (single task)
		Visual Short Term Memory (VSTM)
multi-tasking	perception	UFOV dual task / no distractors / central task
verbal cognition	WM	Auditory 2 back - single task 2-back
		combiTVA
		N-Back
		N-Back (excluding the 1 back condition)
		OSPAN
		TVA whole
		Verbal Short Term Memory

Please, check Table *List of Tasks and Cognitive Domains* to see if tasks may be missing.

7.3 Analysis on full dataset (i.e., without excluding studies based on gender ratio)

We excluded quite a large number of studies based on gender ratio.
Follow-up analyses will examine whether those studies that were excluded appear to have a different ES distribution than those we kept. And I always think it's nice to anticipate possible bad faith complaints (i.e., we excluded those studies on theoretical grounds, because those types of gender ratios make it impossible to separate gender effects from gaming effects; but it's nice to be able to say that if we had kept them, it wouldn't have made a difference empirically).

7.4 Task difficulty

USE mean performance (%error, % correct, RT) as a measure of task difficulty to check impact on ES's?

Skip to content Search or jump to…

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? jules32 / bookdown-tutorial 2 11 Code Issues Pull requests Actions Projects Wiki Security Insights bookdown-tutorial/setup.Rmd **?** jules32 change green to tiny Latest commit 96f5b4a on 8 Mar 2019 History 1 contributor 66 lines (43 sloc) 2.98 KB

Chapter 8

Setting up Bookdown

The `bookdown` package and book is definitely the best way to get started. However, in practice I always find myself copying an existing, working book and modifying it instead of starting from scratch. So this tutorial is going to have you do that as well, using this book as the one you copy from.

[more setup here]

You will have to name your book's repository. To differentiate your book's repo name from this "bookdown-tutorial" repo, here we'll call your book "awesome-book" *but you should consistently name it what you want to name it*.

8.1 Get "bookdown-tutorial" going on your local computer

1. Go to https://github.com/jules32/bookdown-tutorial
2. Click the green "clone or download" button and DOWNLOAD ZIP.
3. Locally on your computer, unzip the folder, save it in a reasonable place
4. Rename 2 things from "bookdown-tutorial" to "awesome-book". You can do this in the finder/windows explorer:

- the folder itself (that you just unzipped)
- the .Rproj file

1. Double-click the .Rproj file to launch RStudio
2. Install packages and restart

- `install.packages("bookdown")`

- `install.packages("usethis")`

- Use the menu item Session > Restart R

1. Click on the Build tab in the top right pane
2. Click on Build Book!

Nice job! Now let's make it yours, and connect it to GitHub.

8.2 Create your "awesome-book" GitHub repo

1. Go to your GitHub account: github.com/username
2. Click on Repositories, and the green button "New" to create a new repo
3. Name this new repo "awesome-book"
4. DO NOT initialize this repo with a README
5. Click the green "create repository" button — this will take you to your new repo
6. Click the tiny "clone or download" button near the top and COPY URL

8.3 Turn "bookdown-tutorial" into "awesome-book"

The following is from Jenny Bryan's Happy Git With R

1. Go back to RStudio, to your "awesome-book" project
2. In the Console, type `usethis::use_git()` and say Yes to the two prompts. This will restart R and give you a new Git tab in the upper right pane.
3. Now, click on the Terminal tab next to the Console tab.
4. Type `git remote add origin <paste your copied awesome-book github url here>`
5. Type `git push --set-upstream origin master`

8.4 Publish "awesome-book"

Last steps!

1. Go back to github.com/username/"awesome-book" and refresh — our files should be there! But we want it to be a book published as https://username.github.io/awesome-book.
2. Click Settings
3. Scroll down to GitHub Settings
4. Change the Source pulldown from "None" to "master branch /docs folder"
5. It should say "Your site is ready to be published at https://username.github.io/awesome-book/" — click the link to see!

Now, you're set — you just need to write your book.

8.5 Moving forward

As you write your .Rmd files, build the book and commit all files, including the docs/ folder, and your published book will be updated!

Bibliography