

User Manual

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Page Description

As this website is hosted on a free service, the process will shut down after a while of idleness. Please be aware that your session will be closed after 1 hour of inactivity. You should save any progress that you want to persist to your local machine before your session is closed. After the session is closed, you will need to restart the session to continue using the website.

1. Home

The Home page showcases a general introduction to the project and instructions on using this website. It also includes instructions on how to submit your study to the dataset.

2. Data Selection

The Data Selection page allows users to filter and to view the dataset based on different variables coded in the meta-analysis. For analyses, see the “Analysis” page.

This “Data Selection” page includes:

- a) *Year Range*: publication year.
- b) *Publication Status*: whether the study is published or unpublished.
- c) *Country/Region*: country/region where the study was being conducted.
- d) *Age Range*: mean age of the study participants.
- e) *Predicted Intrusion Direction*: the predicted effect of a technique on intrusion frequency specified in the article. E.g., Increase/Decrease: a technique hypothesized to increase/decrease the intrusion compared to control condition; Unspecified: the direction was not specified in the article; Null: a technique hypothesized to have no influence on the intrusion compared to control condition
- f) *Outcome*: the outcome specified in the article. We coded intrusion frequency, intrusion-related distress, and intrusion-related symptoms.

- g) *Measurement Type*: how the outcome is measured. E.g., Intrusion diary, Lab-based intrusion monitoring task, Self-reported questionnaire.
- h) *Technique Name*: the technique/comparison examined in the study. Note the names were standardized across the dataset (see manuscript Figure 2 coding schema).
- i) *Procedure-based Superordinate Category*: Superordinate category coded based on the procedure of the technique, e.g., Behavioural, Neuromodulation, Pharmacological
- j) *Mechanism-based Superordinate Category*: Superordinate category coded based on the hypothesized mechanism of the behavioural techniques, e.g., Imagery, Emotion, Verbal etc.
- k) *Timepoints of Technique Administration*: the timepoint of when the technique is administered, e.g. Pre, Immediate post, Delayed post

If you want the drop-downs to display only the options that are currently available in the dataset after your selected filters are applied, you should check the checkbox “Display only the options that exist within the current filtered dataset.”. When this is unchecked, the options in the drop-downs are the full set of available options in the complete data set.

In the right column, it’s a preview of the filtered dataset. You can interact with the preview, such as navigating to different pages and using the Search box to filter a row that contains the keyword you input in any column. In the dataset, any blank cell means that the data is not available.

In the left column, you can click “Download All Data” or “Download Filtered Data” to download the full or filtered dataset in CSV format.

3. Analysis

The Analysis page is for users to run the analysis.

a) Use selected data / Upload your data

In the toggle “Use selected data / Upload your data”, users can choose to either use the filtered data that they previously selected on the Data Selection Page, or upload their own dataset for the analysis.

If users want to upload their data, they should download all data/the filtered data on the Data Selection Page, modify the dataset through Excel, Google Sheets or any spreadsheet application, save the file in CSV format to their local device, and upload it back to the upload box which displays after toggling to “Upload your data”. **Please be aware that users should keep all columns and column names unchanged. Only a CSV file is accepted.**

b) Analysis Type

In “Analysis Type”, users can select whether to run a main analysis or a moderator analysis.

- When “Main Analysis” is selected, users need to input the “Random Effect” in the textbox. By default, the random effect is “~1 |StudyID/EffectSizeID”. This specifies a multilevel random effect, where effect sizes (EffectSizeID) are nested within studies (StudyID), accounting for both between- and within-study variance. At the same time, we have prepared a “compute I²” checkbox for users to select whether

they want the app to compute I^2 or not. Checking this option will significantly lengthen the time required to run the analysis for an additional at least 5 minutes. If users want the analysis to be completed in a faster manner, they can uncheck this “compute I^2 ” checkbox.

- When “Moderator Analysis” is selected, users will need to input the “Random Effect” in the textbox. By default, the random effect is “~1 |StudyID/EffectSizeID”. The definition of this formula is depicted in the above paragraph. Users also need to select a moderator for the analysis.

After completing all the textboxes and dropdowns, users should click “Run” to run the analysis. It will take a while for the webserver to complete the analysis. The time depends on how large the dataset is, the random effect structure, and whether is I^2 computed. When the analysis is running, there’s a spinner indicating that the analysis is in progress. Please wait patiently for the results. Once the analysis is completed, users will see the results in the “Meta-analytics models” tab. Users will also be able to see the forest plot in the “Forest Plot” tab, and the word cloud in the “Word Cloud” tab.\

The word cloud acts as a descriptive tool, showcasing the names of individual techniques listed in the dropdown of “Technique Name” on the Data Selection page. The size and color of each term indicate the frequency of articles employing that specific technique.

How to reproduce the results in the article?

In the article, main or moderator analyses are run with different filters in the dataset. You should select the proper filters on the “Data Selection” page on the website in order to retrieve the same results as in the article.

First, you should always include all options in year range, publication status, country and range of age. This is because none of the analyses in the articles are filtered by these columns.

Second, the analyses in the articles were always done on **one dependent variable**. Therefore, you should make sure you select either one of “Intrusion frequency”, “Intrusion symptoms” or “Intrusion-related distress” in the Outcome column to match the analysis that you are looking at in the article.

Third, the analyses in the articles were sometimes filtered by one or more of the below filters: Predicted Intrusion Direction, Measurement Type, Technique Name, Procedure-based Superordinate Category, Mechanism-based Superordinate Category, or Time Of Administration. So, please make sure the filters are correctly selected.

To enhance statistical power and address heterogeneity, in the moderation analysis using Mechanism-based Superordinate Category as a moderator, we omitted effect sizes within the "Other" category. However, for the website presentation, we opted to include these effect sizes to offer the most comprehensive results.

Example - Running a Main Analysis

1. Go to the Data Selection page
2. Select the filter that you want to be applied to the dataset; in this example, only “published” studies are included

Description

Select the data you want to include in the analysis

Year Range

1,995 2,023

1,995 1,998 2,001 2,004 2,007 2,010 2,013 2,016 2,019 2,022 2,023

Publication Status

Published

Country

Age Range

18.72 39.56

18.72 22 25 28 31 34 37 39.56

Predicted Intrusion Direction

Outcome

Measurement Type

Technique Name

Procedure-based Superordinate Category

Mechanism-based Superordinate Category

Filtered Data Overview

135

Number of articles

154

Number of studies

641

Number of effects

Show 10 entries

Search:

StudyID	ArticleCounter	ExperimentCounter	No.	CoderID	ArticleID	StudyNo	StudyType	Experimen
1	1	1	1	SZ	1	1	Behavioural	
2	1		2	SZ	1	1	Behavioural	
3	1		3	SZ	1	1	Behavioural	
4	1		4	SZ	1	1	Behavioural	
5	1		5	SZ	1	1	Behavioural	
6	1		6	SZ	1	1	Behavioural	

3. Review the data table in the right column to make sure that this is the dataset you want
4. Go to the Analysis page
5. Select “Use selected data”, select “Main Analysis” and leave “Random Effect” as default

Customize Analysis

Use selected data / Upload your data

☒ Use Selected Data ☐ Upload Your Data

Analysis Type

Main analysis

Random Effect

~1 |StudyID/EffectSizeID

☐ Compute I² Checking this option will increase the running time by 5 mins or more depending on the number of effects

Run

6. Click Run to run the analysis

7. Wait for the analysis to be completed (a spinner is shown when analysis is running)



Computing multi-level meta analytics model...

8. View the results of the analysis; you can download the result table by clicking the download button

Meta-analytic models

Forest Plot

Word Cloud

Analysis Results

Show10entries

Search:

Analysis	N	n_article	n_study	k	Hedgesg	CI	z	p	Q	tau2.studylevel	tau2.outcomelevel	I2	Q.pval
1Main analysis	12134	135	154	609	0.12	[0.06, 0.18]	3.85	0	1386.68	0.11		0	0

Showing 1 to 1 of 1 entries

Previous

1

Next

Download Results

9. View the forest plot; you can download the forest plot as pdf by clicking the download button

Author(s) & Year	Individual Technique	Intrusion Type	Hedge's g (95% CI)
Voss et al., 2019	Anodal tdc	Not provided	-0.47 [-0.96, 0.02]
Voss et al., 2019	Anodal tdc	Image/thought combined	0.17 [-0.27, 0.61]
Bryant & Chan, 2017	Attachment priming	Not provided	0.19 [-0.28, 0.67]
Bryant & Ford, 2016	Attachment priming	Not provided	0.36 [-0.15, 0.87]
Karl et al., 2021	Attachment priming	Not provided	0.38 [-0.18, 0.94]
Karl et al., 2021	Attachment priming	Not provided	0.56 [-0.01, 1.13]
Verwoerd et al., 2012	Attentional bias modification	Not provided	0.74 [0.13, 1.34]
Verwoerd et al., 2012	Attentional bias modification	Not provided	0.82 [0.21, 1.43]
Ehlers et al., 2012	Autobiographical memory elaboration	Not provided	0.28 [-0.16, 0.72]
Michael & Ehlers, 2007, Exp. 2	Autobiographical memory elaboration	Thought	-0.19 [-0.61, 0.23]
Michael & Ehlers, 2007, Exp. 2	Autobiographical memory elaboration	Image, feeling and dreams	0.24 [-0.18, 0.66]
Zetsche et al., 2009	Autobiographical memory elaboration	Image, sound or thought	0.01 [-0.47, 0.48]
Zetsche et al., 2009, Spontaneous	Autobiographical memory elaboration	Image, sound or thought	0.02 [-0.46, 0.49]
Zetsche et al., 2009, Triggered	Autobiographical memory elaboration	Image, sound or thought	-0.21 [-0.68, 0.27]
Kuiling et al., 2019	Behavioral control	Image	0.00 [-0.49, 0.49]
Xu et al., 2023	Bilateral eye movement	Image	0.65 [0.15, 1.15]
Xu et al., 2023	Bilateral eye movement	Not provided	0.70 [0.21, 1.20]
Xu et al., 2023	Bilateral eye movement	Image/thought combined	0.71 [0.21, 1.21]
Nixon et al., 2009a	Block rehearsal + thought suppression	Not provided	0.17 [-0.40, 0.73]
Nixon et al., 2009a	Block rehearsal + thought suppression	Not provided	0.36 [-0.21, 0.93]
Nixon et al., 2009a, Delayed post	Block rehearsal + thought suppression	Not provided	0.09 [-0.48, 0.65]
Nixon et al., 2009a, Immediate post	Block rehearsal + thought suppression	Not provided	0.04 [-0.53, 0.60]
Jones & McNaally, 2020	Broad vs. Narrow trauma belief	Not provided	0.14 [-0.09, 0.37]
Voss et al., 2019	Cathodal tdc	Not provided	-0.17 [-0.67, 0.33]
Voss et al., 2019	Cathodal tdc	Image/thought combined	0.28 [-0.16, 0.73]
Li et al., 2023	Challenged vs. Unchallenged memory	Image/thought combined	0.36 [-0.01, 0.72]
Li et al., 2023	Challenged vs. Unchallenged memory	Image/thought combined	0.76 [0.38, 1.13]
Krans et al., 2010b	Chewing gum	Image/thought combined	0.45 [-0.19, 1.10]
Krans et al., 2010a	Clay modeling	Not provided	0.45 [-0.09, 0.99]
Krans et al., 2010a	Clay modeling	Sensory/verbal	0.67 [0.13, 1.22]
Krans et al., 2010a	Clay modeling	Sensory/verbal	0.74 [0.20, 1.29]
Stuart, 2002, Exp. 1	Clay modeling	Image	0.92 [0.27, 1.57]
Tabrizi & Jansson, 2016	Clay modeling	Not provided	-0.55 [-1.44, 0.34]
Tabrizi & Jansson, 2016	Clay modeling	Not provided	-0.12 [-1.00, 0.76]
Tabrizi & Jansson, 2016	Clay modeling	Image & sound	-0.07 [-0.94, 0.81]
Tabrizi & Jansson, 2016	Clay modeling	Sound	-0.04 [-0.92, 0.83]
Tabrizi & Jansson, 2016	Clay modeling	Image	-0.04 [-0.92, 0.83]
Bryant et al., 2013	Cold vs. Warm water stress	Not provided	-0.15 [-0.59, 0.29]
Cheung et al., 2013	Cold vs. Warm water stress	Not provided	-0.01 [-0.54, 0.52]
Hilberdink et al., 2022	Cold vs. Warm water stress	Image/thought combined	-0.19 [-0.68, 0.31]
Hilberdink et al., 2022, Mean	Cold vs. Warm water stress	Not provided	-0.31 [-0.80, 0.19]
Hilberdink et al., 2022, Sum	Cold vs. Warm water stress	Not provided	-0.36 [-0.86, 0.14]
Cheung et al., 2015	Cold vs. Warm water stress + trauma reminder	Not provided	-0.77 [-1.39, -0.14]
Cheung et al., 2015	Cold water stress induction + trauma reminder vs. Cold water stress induction	Not provided	-0.66 [-1.28, -0.04]
Kindt et al., 2008, Exp. 2	Conceptual processing	Image/thought combined	-0.01 [-0.57, 0.55]
Segovia et al., 2016	Conceptual processing	Not provided	-0.28 [-0.75, 0.19]
Segovia et al., 2016	Conceptual processing	Image/thought combined	-0.11 [-0.57, 0.36]
Segovia et al., 2016	Conceptual processing	Not provided	0.04 [-0.43, 0.51]

10. View word cloud

Example – Running a Moderator Analysis

1. Go to the Data Selection page
- 2.

The screenshot displays the 'Data Selection' interface. On the left, under 'Description', there are filters for 'Year Range' (1995 to 2023), 'Publication Status' (set to 'Published'), 'Country', 'Age Range' (18.72 to 39.56), and several categorical filters like 'Predicted Intrusion Direction', 'Outcome', 'Measurement Type', 'Technique Name', 'Procedure-based Superordinate Category', and 'Mechanism-based Superordinate Category'. On the right, the 'Filtered Data Overview' section shows summary statistics: 135 Number of articles, 154 Number of studies, and 641 Number of effects. Below these is a table with 10 entries, showing columns for StudyID, ArticleCounter, ExperimentCounter, No., CoderID, ArticleID, StudyNo, StudyType, and ExperimentType. The table lists 6 studies, all with 'Behavioural' study types.

StudyID	ArticleCounter	ExperimentCounter	No.	CoderID	ArticleID	StudyNo	StudyType	ExperimentType
1	1	1	1	SZ	1	1	Behavioural	
2	1		2	SZ	1	1	Behavioural	
3	1		3	SZ	1	1	Behavioural	
4	1		4	SZ	1	1	Behavioural	
5	1		5	SZ	1	1	Behavioural	
6	1		6	SZ	1	1	Behavioural	

Select the filter that you want to be applied to the dataset; in this example, only “published” studies are included

3. Review the data table in the right column to make sure that this is the dataset you want
4. Go to the Analysis page
5. Select “Use selected data”, select “Moderator Analysis” and leave “Random Effect” as default
6. Select a moderator; in this example, “Task vs Instruction” is selected

Use selected data / Upload your data

☒ Use Selected Data ☐ Upload Your Data

Analysis Type

Moderator analysis

Random Effect

~1 |StudyID/EffectSizeID

Moderator

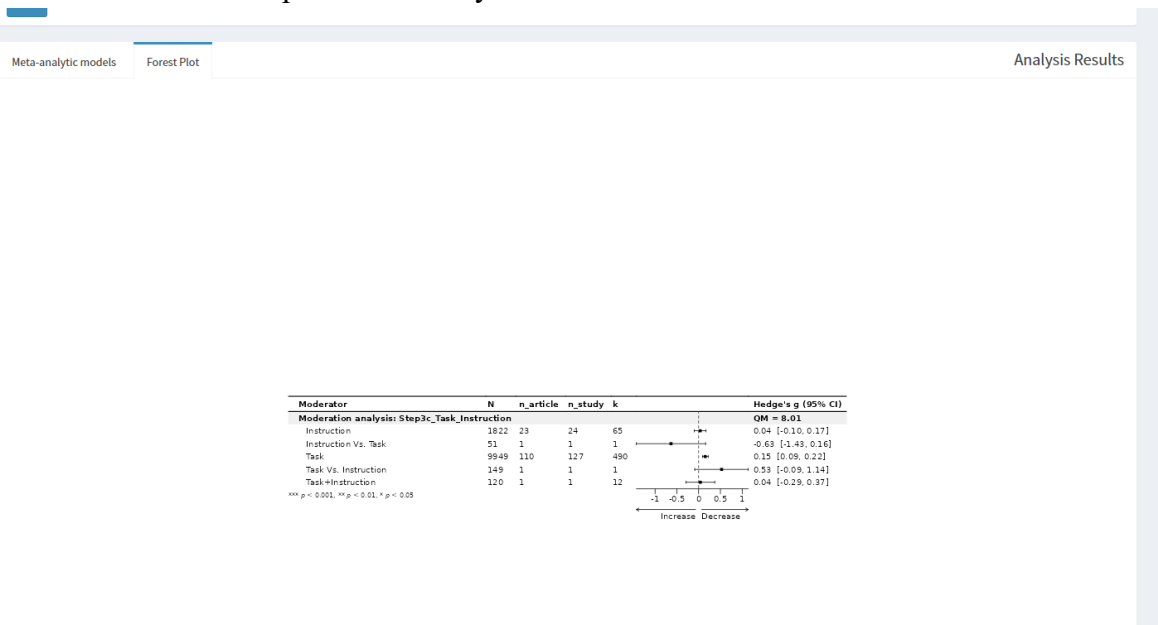
Task vs. Instruction

Run

7. Click Run to run the analysis
8. View the results of the analysis

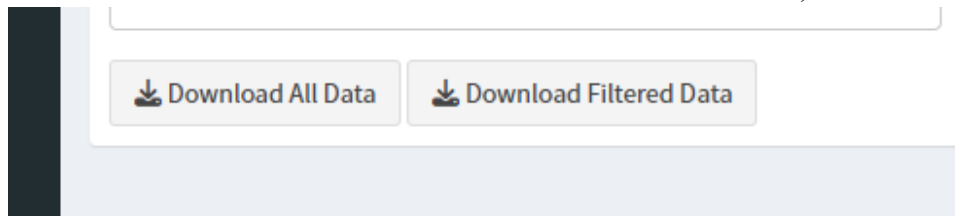
Meta-analytic models		Forest Plot										Analysis Results		
Show 10 entries												Search:		
Analysis		N	n_article	n_study	k	Hedges g	CI		QM	z	p			
1	Moderation analysis: Step3c_Task_Instruction								8.01		0.09			
2	Instruction	1822	23	24	65	0.04	[-0.10, 0.17]			0.53	0.6			
3	Instruction Vs. Task	51	1	1	1	-0.63	[-1.43, 0.16]			-1.57	0.12			
4	Task	9949	110	127	490	0.15	[0.09, 0.22]			4.57	0			
5	Task Vs. Instruction	149	1	1	1	0.53	[-0.09, 1.14]			1.68	0.09			
6	Task+Instruction	120	1	1	12	0.04	[-0.29, 0.37]			0.24	0.81			
Showing 1 to 6 of 6 entries												Previous 1 Next		

9. View the forest plot of the analysis



Example – Using your own data for analysis

1. Go to the Data Selection page
2. Click Download All Data to download the complete dataset (you can also click Download Filtered Data to download the filtered dataset)



3. Open the dataset in Excel (or any spreadsheet software of your choice)
4. Add a new row to the csv file; you should fill in all the columns except CoderID; you shouldn't remove any column from the dataset; for "StudyID", "ArticleID", and "EffectSizeID", please advance the biggest number in the dataset by 1 to get a new ID for the effect size that you are adding
5. Save the file and make sure that the format is ".csv"
6. Go to the Analysis Page
7. Select "Upload Your Data"

Use selected data / Upload your data

☐ Use Selected Data ☒ Upload Your Data

Instruction: Download the dataset in **Data Selection** tab as a template or starting point; filter the data or add your own data. Do **NOT** remove any column or change the column names. Otherwise the analysis may run into errors.

Choose CSV File

Browse... No file selected

Analysis Type

Moderator analysis

Random Effect

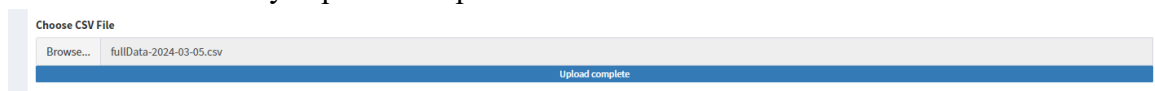
~1|StudyID/EffectSizeID

Moderator

Task vs. Instruction

Run

8. Upload the CSV file that you just saved through the upload box
9. Wait until it says upload complete



10. Select "Main Analysis" and leave "Random Effect" as default
11. Click Run to run the analysis
12. Wait for the analysis to be completed (a spinner is shown when analysis is running)
13. View the results, the forest plot, and word cloud of the analysis