



Dear reader,

This study is part of the meta-scientific research that is currently underway at the **Leibniz Institute for Psychology (ZPID)**. We are an open science institute located in Germany, and we strive to support researchers in psychology and related fields by providing an excellent (digital) infrastructure adapted to their needs.

With this study, we want to test the usability of a recently published preregistration template, the **Psychological Research Preregistration-Quantitative (PRP-QUANT) Template**, which was created by a task force consisting of members of the **German Psychological Society (DGPs)**, the **American Psychological Association (APA)**, the **British Psychological Society (BPS)**, the **Center for Open Science (COS)**, and the **Leibniz Institute for Psychology (ZPID)**.

A preregistration is a study plan that is registered with an independent party (e.g., a repository) before the data has been collected or examined. Upon registration, a time-stamped record of the study plan is created that will eventually be published (possibly after an embargo period). If the study plan changes afterwards, either a new record needs to be created or the deviations will be apparent when comparing the preregistration to the final manuscript. Thus, preregistration allows a transparent presentation of what was planned at a certain time point and what changes may have been made to a study until its publication.

The present preregistration template was created to help you create such preregistrations by providing a form that includes the most important information to preregister which can be filled in. It is tailored to the field of psychology, focusing on quantitative research.

Your feedback will help us to understand whether the template is written clearly and whether it helps you to plan your study by capturing the important aspects of your research. Therefore, your participation would be extremely valuable as results will be used to adapt the template as well as ZPID's preregistration service. The study takes about 30 to 45 minutes to complete.

Participant Information and Informed Consent

Overall information: We invite you to participate in our study, which serves as a usability study for a new preregistration template. Your participation in this study is voluntary. You may choose not to participate. The purpose of this form is to provide you with all information necessary to decide if you want to participate. Please read it carefully. If you have any questions that are not answered by this form, please do not hesitate to contact us (see below).

Aim of this study: This study was designed to test the usability of a new preregistration template which was created by a task force consisting of members of the German Psychological Society (DGPs), the American Psychological Association (APA), the British Psychological Society (BPS), the Center for Open Science (COS), and the Leibniz Institute for Psychology (ZPID).

Procedure: In the following, we will show you the new preregistration template. You will be asked to fill out a subset of the template's items, as well as evaluate single items and the overall template. Additionally, you will be asked to answer a short questionnaire. Response formats for the items include rating scales, single or multiple choice, or open text input. The study will take about 30-45 minutes to complete. Participants that do not belong to the target sample will be excluded at the beginning of the study.

Collection and processing of personal information: We collect data on gender, age, native language, country, academic group, research topic, and membership in a psychological society. Based on these data, it will not be possible to identify specific persons. Your email address (optional for receiving further information) is collected separately, i.e., it is not possible for us to link it in any way to your responses in the study. Furthermore, we do not collect other identifying information such as your name or IP address. Anonymity is therefore maintained.

Possible risks: No known risks are associated with participation in this study.

Withdraw participation: Participation is voluntary. You have the right to refuse participation and withdraw at any time without any consequence whatsoever and without stating any reasons for doing so.

Data processing and usage of anonymized data: Anonymity of your responses is preserved, and no individual association will be possible, as email addresses will be collected separately. Your data will be processed in agreement with the legal provisions of the European law (General Data Protection Regulation, more information is available here: <https://gdpr.eu/tag/gdpr/>). The results of our study will presumably be published as a scientific research article. Furthermore, the anonymized data will be made publicly available in line with transparent and open research practices, as recommended by the German Research Foundation (DFG) and the German Psychological Society (DGPs).

Contact address: Lisa Spitzer, PhD Student at the Leibniz Institute for Psychology (ZPID), ls@leibniz-psychology.org

Informed consent: I have received the participant information about the aims and procedure of the study, read it carefully, and fully understood it. If I have any more questions, I know that I can contact the examiner. I have had enough time to decide for or against participation in this study. By selecting "I agree with these conditions" below, I declare that I understood this information and want to participate voluntarily in this study. I have understood that I can withdraw my participation in the study at any point without stating any reasons for doing so, and without any negative consequences. I agree that my data may be processed and shared as described above.

I agree with these conditions.

Where did you learn about this survey?

- APA email
- BPS email
- DGPs email
- Twitter
- Other:

What is your gender?

- male
- female
- other
- prefer not to answer

How old are you?

years

Is English your native language?

- yes
- no

Are you a researcher and does your research fall within the scope of psychology?

- Yes, I am a researcher and my research falls within the scope of psychology.
- No, I am not a researcher or my research does not fall within the scope of psychology.

How many studies have you preregistered before?

▼

To which academic group do you belong?

- PhD student
- Postdoc
- Professor – which type (e.g., full, associate, junior):
- Other:

In which country is your lab located?

All country names are displayed in English.

▼

What APA division do you belong to?

Please select every option that applies to you.

- 1. Society for General Psychology
- 2. Society for the Teaching of Psychology
- 3. Society for Experimental Psychology and Cognitive Science
- 5. Quantitative and Qualitative Methods
- 6. Society for Behavioral Neuroscience and Comparative Psychology
- 7. Developmental Psychology
- 8. Society for Personality and Social Psychology
- 9. Society for the Psychological Study of Social Issues (SPSSI)
- 10. Society for the Psychology of Aesthetics, Creativity and the Arts
- 12. Society of Clinical Psychology
- 13. Society of Consulting Psychology
- 14. Society for Industrial and Organizational Psychology
- 15. Educational Psychology
- 16. School Psychology
- 17. Society of Counseling Psychology
- 18. Psychologists in Public Service
- 19. Society for Military Psychology
- 20. Adult Development and Aging
- 21. Applied Experimental and Engineering Psychology
- 22. Rehabilitation Psychology
- 23. Society for Consumer Psychology
- 24. Society for Theoretical and Philosophical Psychology
- 25. Behavior Analysis
- 26. Society for the History of Psychology
- 27. Society for Community Research and Action: Division of Community Psychology
- 28. Psychopharmacology and Substance Abuse
- 29. Society for the Advancement of Psychotherapy
- 30. Society of Psychological Hypnosis
- 31. State, Provincial and Territorial Psychological Association Affairs
- 32. Society for Humanistic Psychology
- 33. Intellectual and Developmental Disabilities/Autism Spectrum Disorder
- 34. Society for Environmental, Population and Conservation Psychology
- 35. Society for the Psychology of Women
- 36. Society for the Psychology of Religion and Spirituality
- 37. Society for Child and Family Policy and Practice
- 38. Society for Health Psychology
- 39. Society for Psychoanalysis and Psychoanalytic Psychology
- 40. Society for Clinical Neuropsychology
- 41. American Psychology-Law Society
- 42. Psychologists in Independent Practice
- 43. Society for Couple and Family Psychology
- 44. Society for the Psychology of Sexual Orientation and Gender Diversity
- 45. Society for the Psychological Study of Culture, Ethnicity and Race
- 46. Society for Media Psychology and Technology
- 47. Society for Sport, Exercise and Performance Psychology
- 48. Society for the Study of Peace, Conflict and Violence: Peace Psychology Division
- 49. Society of Group Psychology and Group Psychotherapy
- 50. Society of Addiction Psychology
- 51. Society for the Psychological Study of Men and Masculinities

- 52. International Psychology
- 53. Society of Clinical Child and Adolescent Psychology
- 54. Society of Pediatric Psychology
- 55. American Society for the Advancement of Pharmacotherapy
- 56. Trauma Psychology

What BPS division do you belong to?

Please select every option that applies to you.

- The Division of Academics, Researchers and Teachers in Psychology
- The Division of Clinical Psychology
- The Division of Counselling Psychology
- The Division of Educational and Child Psychology
- The Division of Forensic Psychology
- The Division of Health Psychology
- The Division of Neuropsychology
- The Division of Occupational Psychology
- The Division of Sport and Exercise Psychology
- The Scottish Division of Educational Psychology

What DGPs division do you belong to?

Please select every option that applies to you.

- General Psychology
- Industrial and organizational Psychology
- Biopsychology and Neuropsychology
- Personality Psychology and Psychological Diagnostics
- Developmental psychology
- History of psychology
- Health psychology
- Clinical psychology and psychotherapy
- Media psychology
- Methods and evaluation
- Educational psychology
- Forensic psychology
- Social psychology
- Environmental psychology
- Traffic psychology

What is your main research topic?

- Educational psychology
- Differential psychology
- General psychology
- Social psychology
- Research methods
- Developmental psychology
- Neuroscience/neuropsychology
- Experimental/cognitive psychology
- Organizational psychology
- Clinical psychology
- Other:

What is your preferred preregistration template (i. e., form that lists important elements to preregister and can be used by researchers to create their own preregistration)?

- Center for Open Science Preregistration Challenge Template (OSF)
- Replication Recipe (Brandt et al., 2013)
- van 't Veer & Giner-Sorolla (2016)
- AsPredicted
- OSF-Standard Pre-Data Collection Registration
- I don't use templates.
- I don't know.
- Other template:

Why do you prefer the selected template?

Please select every option that applies to you.

- It is comprehensive
- It is recommended by my supervisor
- It was the first template I used
- It is the only template I know
- It is easy to use
- It fits well with my research area
- It is time-efficient
- It is preferred by my co-authors/colleagues/peers
- Other:

Template

Before answering individual items of the template, we will present you the whole **Psychological Research Preregistration-Quantitative (PRP-QUANT) Template**. To open the template in an additional tab, please open the link below. The items that we will ask you to fill out are highlighted in green.

Link to the template: click [here](#)

Important: Please leave the template open in an additional tab the whole time. This way you can have a look at the template throughout the study.

Now, please take a look at the whole template to get a general impression. Below, you are asked to answer a control question that shows us that you have successfully opened the template.

Control: What information does the template item M14 request?

This question's purpose is to check if you could open the template successfully.

- Sample size, power and precision
- Data cleaning and screening
- Theoretical background
- Study Procedures

Unfortunately, you did not answer our control question correctly. Please try again to open the template in an additional tab (please leave this tab open the whole time!).

Link to the template: click [here](#)

Then, please try again to answer our control question below to proceed.

Control: What information does the template item M14 request?

This question's purpose is to check if you could successfully open the template.

Please correct your response.

- Theoretical background
- Data cleaning and screening
- Sample size, power and precision
- Study Procedures

Task

On the following pages, we will ask for your input on some of the template's items. You will not be asked to answer all template items. Instead, we will ask for your input on the items that are highlighted in green.

Think of one of your own studies and fill out the fields as if you were preregistering this study. We will then ask you for your feedback on the items (how important, how understandable, etc). If you are not currently conducting a study, you can also answer the questions based on one of your previous studies.

First, please give us some general information about the study based on which you will fill out the template items.

Note: All responses will be recorded anonymously. Furthermore, all information you provide about your study when filling out the template will be treated with strict confidentiality and will not be shared (i.e., when sharing the data after data collection, this information will be deleted). Thus, there is no risk of scooping (i.e., no one can steal your study idea).

Please provide a short overall description of the study.

How far have you progressed with the study, what is the current status?

- I have just started planning the study
- I have already planned the study in detail
- I am currently conducting the study
- I already finished conducting the study

Do you plan to or did you already preregister the study?

- I plan to preregister the study, but have not started yet
- I am currently working on the preregistration
- I have already preregistered the study
- I have not/do not plan to preregister the study

We will now start presenting you the items of the template.

Please fill them in while thinking about the study you described on the previous page. You can answer the template in full sentences or in keywords. If you have already worked on a preregistration for your study, you are welcome to copy/paste information into the study items.

The responses to all template items (i.e., all personal information you share about your study) will be kept strictly confidential.

T8. Conflict of Interest Statement

Identify any real or perceived conflicts of interest with this study execution. For example, any interests or activities that might be seen as influencing the research (e.g., financial interests in a test or procedure, funding by pharmaceutical companies for research).

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

T8. Conflict of Interest Statement

Identify any real or perceived conflicts of interest with this study execution. For example, any interests or activities that might be seen as influencing the research (e.g., financial interests in a test or procedure, funding by pharmaceutical companies for research).

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

T10. Data accessibility statement and planned repository

We plan to make the data available.

Please answer this template item, having your own study in mind.

- yes
 no

If "yes", please specify the planned data availability level:

If "no", skip this item.

[Please choose] 

Please give us feedback about the item.

Please explain why you selected this answer.

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

text('TT03')

T10. Data accessibility statement and planned repository

We plan to make the data available.

- *yes*
- *no*

question('ER03')

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research
- Other:

text('TT04')

If "yes", please specify the planned data availability level:

- *Data access via download; usage of data for all purposes (public use file)*
- *Data access via download; usage of data restricted to scientific purposes (scientific use file)*
- *Data access via download; usage of data has to be agreed and defined on an individual case basis*
- *Data access via secure data center (no download, usage/analysis only in a secure data center)*
- *Data available upon email request by member of scientific community*
- *Other (please specify):*

question('ER04')

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research
- Other:

T11. Optional: Code availability

We plan to make the code available.

Please answer this template item, having your own study in mind.

- yes
 no

If "yes", please specify the planned code availability level:

If "no", skip this item.

[Please choose] 

Please give us feedback about the item.

Please explain why you selected this answer.

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

text('TT05')

T11. Optional: Code availability

We plan to make the code available.

- *yes*
- *no*

question('ER05')

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research
- Other:

text('TT06')

If "yes", please specify the planned code availability level:

- *Data access via download; usage of data for all purposes (public use file)*
- *Data access via download; usage of data restricted to scientific purposes (scientific use file)*
- *Data access via download; usage of data has to be agreed and defined on an individual case basis*
- *Data access via secure data center (no download, usage/analysis only in a secure data center)*
- *Data available upon email request by member of scientific community*
- *Other (please specify):*

question('ER06')

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research
- Other:

T12. Optional: Standard lab practices

Standard lab practices refer to a (timestamped) document, software package, or similar, which specifies standard pipelines, analytical decisions, etc. which always apply to certain types of research in a lab. Specify here and refer to at the appropriate positions in the remainder of the template.

We plan to make the standard lab practices available.

Please answer this template item, having your own study in mind.

- yes
 no

If "yes", please specify the planned standard lab practices availability level:

If "no", skip this item.

[Please choose] 

Please give us feedback about the item.

Does your lab have such a standard lab practices document?

- yes
 no
 I don't know

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

text('TT07')

T12. Optional: Standard lab practices

Standard lab practices refer to a (timestamped) document, software package, or similar, which specifies standard pipelines, analytical decisions, etc. which always apply to certain types of research in a lab. Specify here and refer to at the appropriate positions in the remainder of the template.

We plan to make the standard lab practices available.

- *yes*
- *no*

question('ER07')

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

text('TT08')

If "yes", please specify the planned standard lab practices availability level:

- *Data access via download; usage of data for all purposes (public use file)*
- *Data access via download; usage of data restricted to scientific purposes (scientific use file)*
- *Data access via download; usage of data has to be agreed and defined on an individual case basis*
- *Data access via secure data center (no download, usage/analysis only in a secure data center)*
- *Data available upon email request by member of scientific community*
- *Other (please specify):*

question('ER08')

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

I1. Theoretical background

Provide a brief overview that justifies the research hypotheses.

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

Does the degree of detail you would write in this section vary based on whether you are planning on submitting this to a journal for a Registered Report or simply creating a preregistration yourself?

Note: A Registered Report is a manuscript consisting of an introduction, methods, and data analysis section, which is written and reviewed before data is collected. If the peer review process yields a positive outcome, the manuscript will receive an in-principle-acceptance (IPA) from the journal, that is the commitment to publish this study provided that it is conducted and analyzed as outlined in the Registered Report.

- Yes, background should be more detailed for Registered Report
- Yes, background should be more detailed for preregistration
- No, both should be equally detailed

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

I1. Theoretical background

Provide a brief overview that justifies the research hypotheses.

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

I2. Objectives and Research question(s)

Outline objectives and research questions that inform the methodology and analyses.

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

I2. Objectives and Research question(s)

Outline objectives and research questions that inform the methodology and analyses.

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

I3. Hypothesis (H1, H2, ...)

Provide hypothesis for predicted results. If multiple hypotheses, uniquely number them (e.g., H1, H2a, H2b) and refer to them the same way at other points in the registration document and in the manuscript.

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

How difficult did you find it to differentiate and number the individual hypotheses?

very easy very difficult

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

I3. Hypothesis (H1, H2, ...)

Provide hypothesis for predicted results. If multiple hypotheses, uniquely number them (e.g. H1, H2a, H2b,) and refer to them the same way at other points in the registration document and in the manuscript.

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

I4. Exploratory research questions (if applicable; E1, E2,)

If planning exploratory analyses, provide rationale for them here. If multiple exploratory analyses, uniquely number them (E1, E2, ...) and refer to them in the same way in the registration document and in future publications.

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

In your opinion, what defines an analysis as exploratory?

What do the codes “E1, E2” etc. mean and how should you use them?

Do you feel it is appropriate to include exploratory questions in a preregistration?

- Definitely Yes
- Maybe Yes
- Unsure
- Maybe Not
- Definitely Not

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

I4. Exploratory research questions (if applicable; E1, E2,)

If planning exploratory analyses, provide rationale for them here. If multiple exploratory analyses, uniquely number them (E1, E2, ...) and refer to them in the same way in the registration document and in future publications.

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research
- Other:

Now, we would like to ask you a few questions concerning the evaluation of the whole template. If you accidentally closed the template in your additional tab, please open it again and use it to answer the following items.

Link to the template: click [here](#)

For this study, you have answered the template in a questionnaire form, which does not resemble its final format (there will be several different formats). Nevertheless, please try to answer the question based on your present impression of the template.

Considering the whole template (also the items that you did not need to answer), how well did you understand the template?

not at all very well

How well does the template fit your research area?

not at all very well

Regarding most of your studies, does the template cover the most important aspects?

not at all very well

I found the template unnecessarily complex.

disagree agree

I thought the template was easy to use.

disagree agree

How would you rate the overall balance between comprehensiveness and parsimony?

Selecting the middle option means "appropriate comprehensiveness".

too parsimonious too comprehensive

How effective would you rate this template in helping you to create a preregistration?

very ineffective very effective

How satisfied are you with the use of the template?

very dissatisfied very satisfied

Please indicate your opinion regarding the below-listed items.

How likely would you use the template in the future to create your preregistrations?

How likely would you recommend using this template to a colleague?

Compared to your favorite template (which you specified at the beginning of the study), did this template convince you less, equally or even more?

less ○ ○ ○ ○ ○ ○ ○ more

What would you improve about the template?

How would you prefer using this template?

Please select every option that applies to you.

- As an online form
- As an Excel template (table format)
- As an RMarkdown template (e.g., RStudio)
- As a Jupyter Notebook that can be adjusted and exported as PDF
- As a Word/Google Doc template for downloading
- Other:

Please indicate your opinion regarding the below-listed items.

Using the template would enhance my effectiveness in research.	Disagree	<input type="radio"/>	Agree						
My supervisor/institution is very supportive of the use of preregistration for my studies.	Disagree	<input type="radio"/>	Agree						
People who influence my behavior think that I should use preregistration.	Disagree	<input type="radio"/>	Agree						
Using the template to preregister my studies would increase my productivity.	Disagree	<input type="radio"/>	Agree						
I have the knowledge necessary to use preregistration.	Disagree	<input type="radio"/>	Agree						
I use preregistration because of the proportion of coworkers who preregister.	Disagree	<input type="radio"/>	Agree						
In psychology, preregistration is currently voluntary.	Disagree	<input type="radio"/>	Agree						
Learning to use the template would be easy for me.	Disagree	<input type="radio"/>	Agree						
I find the template flexible to interact with.	Disagree	<input type="radio"/>	Agree						
It is my decision alone if I want to preregister or not.	Disagree	<input type="radio"/>	Agree						
I find the template easy to use.	Disagree	<input type="radio"/>	Agree						
I have the resources necessary to use preregistration.	Disagree	<input type="radio"/>	Agree						
I have control over using preregistration.	Disagree	<input type="radio"/>	Agree						
Using the template would improve my research.	Disagree	<input type="radio"/>	Agree						

Please indicate your opinion regarding the below-listed items.

In general, the research community supports the use of preregistration.	Disagree	<input type="radio"/>	Agree						
Specific persons (or groups) are available for assistance with preregistration difficulties.	Disagree	<input type="radio"/>	Agree						
Working with the template is so complicated, it is difficult to understand what is going on.	Disagree	<input type="radio"/>	Agree						
Using the template would make it easier to do my research.	Disagree	<input type="radio"/>	Agree						
I think that using preregistration fits well with the way I like to work.	Disagree	<input type="radio"/>	Agree						
I would find the template useful in my research.	Disagree	<input type="radio"/>	Agree						
Overall, I believe that the template is easy to use.	Disagree	<input type="radio"/>	Agree						
Using preregistration is a status symbol in my organization.	Disagree	<input type="radio"/>	Agree						
Other people decide if I preregister or not.	Disagree	<input type="radio"/>	Agree						

Do you have any further comments about this study?

Further Information

Your email address will be saved separately from all other data and no junction will be possible, thus anonymity is preserved. Your email address will be treated with strict confidentiality. We will delete all email addresses of persons that want to receive a preprint after the preprint was published and sent, but at the latest after 12 months.

As soon as you select that you want to receive a preprint, you can enter your email address.

I am interested in the results of this study. Please send me a **preprint** by email.

Last Page

Thank you for completing this questionnaire!

We would like to thank you very much for helping us.

As mentioned at the beginning, we are conducting this study to test the usability of a new preregistration template, the **Psychological Research Preregistration-Quantitative (aka PRP-QUANT) Template**, which was created by a task force, consisting of members of the German Psychological Society (DGPs), the American Psychological Association (APA), the British Psychological Society (BPS), the Center for Open Science (COS), and the Leibniz Institute for Psychology (ZPID, also see [Preregistration in Psychology](http://dx.doi.org/10.23668/psycharchives.4584)). The template is available at: <http://dx.doi.org/10.23668/psycharchives.4584>

This usability study is based on the four aspects of usability as defined by Shackel (2009) which are 1) learnability, 2) flexibility, 3) effectiveness, and 4) attitude.

Besides descriptively testing the template's usability, we also want to investigate what might influence the intention to use the preregistration template in the future. As postulated by the unified theory of acceptance and use of technology (UTAUT, Venkatesh, Morris, Davis & Davis, 2003; Venkatesh, Thong & Xu, 2016), we expect that the intention to use the template is influenced by performance expectancy (moderated by gender and age), effort expectancy (moderated by gender, age, and experience), and social influence (moderated by gender, age, experience, and voluntariness of use).

If you have any more questions or remarks, please feel free to contact the main experimenter Lisa Spitzer (ls@leibniz-psychology.org).

Your answers were transmitted, you may close the browser window or tab now.

[Lisa Spitzer](#), Leibniz Institute for Psychology (ZPID) - 2021



Dear reader,

This study is part of the meta-scientific research that is currently underway at the **Leibniz Institute for Psychology (ZPID)**. We are an open science institute located in Germany, and we strive to support researchers in psychology and related fields by providing an excellent (digital) infrastructure adapted to their needs.

With this study, we want to test the usability of a recently published preregistration template, the **Psychological Research Preregistration-Quantitative (PRP-QUANT) Template**, which was created by a task force consisting of members of the **German Psychological Society (DGPs)**, the **American Psychological Association (APA)**, the **British Psychological Society (BPS)**, the **Center for Open Science (COS)**, and the **Leibniz Institute for Psychology (ZPID)**.

A preregistration is a study plan that is registered with an independent party (e.g., a repository) before the data has been collected or examined. Upon registration, a time-stamped record of the study plan is created that will eventually be published (possibly after an embargo period). If the study plan changes afterwards, either a new record needs to be created or the deviations will be apparent when comparing the preregistration to the final manuscript. Thus, preregistration allows a transparent presentation of what was planned at a certain time point and what changes may have been made to a study until its publication.

The present preregistration template was created to help you create such preregistrations by providing a form that includes the most important information to preregister which can be filled in. It is tailored to the field of psychology, focusing on quantitative research.

Your feedback will help us to understand whether the template is written clearly and whether it helps you to plan your study by capturing the important aspects of your research. Therefore, your participation would be extremely valuable as results will be used to adapt the template as well as ZPID's preregistration service. The study takes about 30 to 45 minutes to complete.

Participant Information and Informed Consent

Overall information: We invite you to participate in our study, which serves as a usability study for a new preregistration template. Your participation in this study is voluntary. You may choose not to participate. The purpose of this form is to provide you with all information necessary to decide if you want to participate. Please read it carefully. If you have any questions that are not answered by this form, please do not hesitate to contact us (see below).

Aim of this study: This study was designed to test the usability of a new preregistration template which was created by a task force consisting of members of the German Psychological Society (DGPs), the American Psychological Association (APA), the British Psychological Society (BPS), the Center for Open Science (COS), and the Leibniz Institute for Psychology (ZPID).

Procedure: In the following, we will show you the new preregistration template. You will be asked to fill out a subset of the template's items, as well as evaluate single items and the overall template. Additionally, you will be asked to answer a short questionnaire. Response formats for the items include rating scales, single or multiple choice, or open text input. The study will take about 30-45 minutes to complete. Participants that do not belong to the target sample will be excluded at the beginning of the study.

Collection and processing of personal information: We collect data on gender, age, native language, country, academic group, research topic, and membership in a psychological society. Based on these data, it will not be possible to identify specific persons. Your email address (optional for receiving further information) is collected separately, i.e., it is not possible for us to link it in any way to your responses in the study. Furthermore, we do not collect other identifying information such as your name or IP address. Anonymity is therefore maintained.

Possible risks: No known risks are associated with participation in this study.

Withdraw participation: Participation is voluntary. You have the right to refuse participation and withdraw at any time without any consequence whatsoever and without stating any reasons for doing so.

Data processing and usage of anonymized data: Anonymity of your responses is preserved, and no individual association will be possible, as email addresses will be collected separately. Your data will be processed in agreement with the legal provisions of the European law (General Data Protection Regulation, more information is available here: <https://gdpr.eu/tag/gdpr/>). The results of our study will presumably be published as a scientific research article. Furthermore, the anonymized data will be made publicly available in line with transparent and open research practices, as recommended by the German Research Foundation (DFG) and the German Psychological Society (DGPs).

Contact address: Lisa Spitzer, PhD Student at the Leibniz Institute for Psychology (ZPID), ls@leibniz-psychology.org

Informed consent: I have received the participant information about the aims and procedure of the study, read it carefully, and fully understood it. If I have any more questions, I know that I can contact the examiner. I have had enough time to decide for or against participation in this study. By selecting "I agree with these conditions" below, I declare that I understood this information and want to participate voluntarily in this study. I have understood that I can withdraw my participation in the study at any point without stating any reasons for doing so, and without any negative consequences. I agree that my data may be processed and shared as described above.

I agree with these conditions.

Where did you learn about this survey?

- APA email
- BPS email
- DGPs email
- Twitter
- Other:

What is your gender?

- male
- female
- other
- prefer not to answer

How old are you?

years

Is English your native language?

- yes
- no

Are you a researcher and does your research fall within the scope of psychology?

- Yes, I am a researcher and my research falls within the scope of psychology.
- No, I am not a researcher or my research does not fall within the scope of psychology.

How many studies have you preregistered before?

▼

To which academic group do you belong?

- PhD student
- Postdoc
- Professor – which type (e.g., full, associate, junior):
- Other:

In which country is your lab located?

All country names are displayed in English.

▼

What APA division do you belong to?

Please select every option that applies to you.

- 1. Society for General Psychology
- 2. Society for the Teaching of Psychology
- 3. Society for Experimental Psychology and Cognitive Science
- 5. Quantitative and Qualitative Methods
- 6. Society for Behavioral Neuroscience and Comparative Psychology
- 7. Developmental Psychology
- 8. Society for Personality and Social Psychology
- 9. Society for the Psychological Study of Social Issues (SPSSI)
- 10. Society for the Psychology of Aesthetics, Creativity and the Arts
- 12. Society of Clinical Psychology
- 13. Society of Consulting Psychology
- 14. Society for Industrial and Organizational Psychology
- 15. Educational Psychology
- 16. School Psychology
- 17. Society of Counseling Psychology
- 18. Psychologists in Public Service
- 19. Society for Military Psychology
- 20. Adult Development and Aging
- 21. Applied Experimental and Engineering Psychology
- 22. Rehabilitation Psychology
- 23. Society for Consumer Psychology
- 24. Society for Theoretical and Philosophical Psychology
- 25. Behavior Analysis
- 26. Society for the History of Psychology
- 27. Society for Community Research and Action: Division of Community Psychology
- 28. Psychopharmacology and Substance Abuse
- 29. Society for the Advancement of Psychotherapy
- 30. Society of Psychological Hypnosis
- 31. State, Provincial and Territorial Psychological Association Affairs
- 32. Society for Humanistic Psychology
- 33. Intellectual and Developmental Disabilities/Autism Spectrum Disorder
- 34. Society for Environmental, Population and Conservation Psychology
- 35. Society for the Psychology of Women
- 36. Society for the Psychology of Religion and Spirituality
- 37. Society for Child and Family Policy and Practice
- 38. Society for Health Psychology
- 39. Society for Psychoanalysis and Psychoanalytic Psychology
- 40. Society for Clinical Neuropsychology
- 41. American Psychology-Law Society
- 42. Psychologists in Independent Practice
- 43. Society for Couple and Family Psychology
- 44. Society for the Psychology of Sexual Orientation and Gender Diversity
- 45. Society for the Psychological Study of Culture, Ethnicity and Race
- 46. Society for Media Psychology and Technology
- 47. Society for Sport, Exercise and Performance Psychology
- 48. Society for the Study of Peace, Conflict and Violence: Peace Psychology Division
- 49. Society of Group Psychology and Group Psychotherapy
- 50. Society of Addiction Psychology
- 51. Society for the Psychological Study of Men and Masculinities

- 52. International Psychology
- 53. Society of Clinical Child and Adolescent Psychology
- 54. Society of Pediatric Psychology
- 55. American Society for the Advancement of Pharmacotherapy
- 56. Trauma Psychology

What BPS division do you belong to?

Please select every option that applies to you.

- The Division of Academics, Researchers and Teachers in Psychology
- The Division of Clinical Psychology
- The Division of Counselling Psychology
- The Division of Educational and Child Psychology
- The Division of Forensic Psychology
- The Division of Health Psychology
- The Division of Neuropsychology
- The Division of Occupational Psychology
- The Division of Sport and Exercise Psychology
- The Scottish Division of Educational Psychology

What DGPs division do you belong to?

Please select every option that applies to you.

- General Psychology
- Industrial and organizational Psychology
- Biopsychology and Neuropsychology
- Personality Psychology and Psychological Diagnostics
- Developmental psychology
- History of psychology
- Health psychology
- Clinical psychology and psychotherapy
- Media psychology
- Methods and evaluation
- Educational psychology
- Forensic psychology
- Social psychology
- Environmental psychology
- Traffic psychology

What is your main research topic?

- Neuroscience/neuropsychology
- General psychology
- Research methods
- Organizational psychology
- Experimental/cognitive psychology
- Developmental psychology
- Clinical psychology
- Social psychology
- Differential psychology
- Educational psychology
- Other:

What is your preferred preregistration template (i. e., form that lists important elements to preregister and can be used by researchers to create their own preregistration)?

- Center for Open Science Preregistration Challenge Template (OSF)
- Replication Recipe (Brandt et al., 2013)
- AsPredicted
- OSF-Standard Pre-Data Collection Registration
- van 't Veer & Giner-Sorolla (2016)
- I don't use templates.
- I don't know.
- Other template:

Why do you prefer the selected template?

Please select every option that applies to you.

- It is preferred by my co-authors/colleagues/peers
- It is the only template I know
- It is time-efficient
- It is recommended by my supervisor
- It was the first template I used
- It is easy to use
- It fits well with my research area
- It is comprehensive
- Other:

Template

Before answering individual items of the template, we will present you the whole **Psychological Research Preregistration-Quantitative (PRP-QUANT) Template**. To open the template in an additional tab, please open the link below. The items that we will ask you to fill out are highlighted in green.

Link to the template: click [here](#)

Important: Please leave the template open in an additional tab the whole time. This way you can have a look at the template throughout the study.

Now, please take a look at the whole template to get a general impression. Below, you are asked to answer a control question that shows us that you have successfully opened the template.

Control: What information does the template item M14 request?

This question's purpose is to check if you could open the template successfully.

- Sample size, power and precision
- Study Procedures
- Theoretical background
- Data cleaning and screening

Unfortunately, you did not answer our control question correctly. Please try again to open the template in an additional tab (please leave this tab open the whole time!).

Link to the template: click [here](#)

Then, please try again to answer our control question below to proceed.

Control: What information does the template item M14 request?

This question's purpose is to check if you could successfully open the template.

Please correct your response.

- Sample size, power and precision
- Data cleaning and screening
- Theoretical background
- Study Procedures

Task

On the following pages, we will ask for your input on some of the template's items. You will not be asked to answer all template items. Instead, we will ask for your input on the items that are highlighted in green.

Think of one of your own studies and fill out the fields as if you were preregistering this study. We will then ask you for your feedback on the items (how important, how understandable, etc). If you are not currently conducting a study, you can also answer the questions based on one of your previous studies.

First, please give us some general information about the study based on which you will fill out the template items.

Note: All responses will be recorded anonymously. Furthermore, all information you provide about your study when filling out the template will be treated with strict confidentiality and will not be shared (i.e., when sharing the data after data collection, this information will be deleted). Thus, there is no risk of scooping (i.e., no one can steal your study idea).

Please provide a short overall description of the study.

How far have you progressed with the study, what is the current status?

- I have just started planning the study
- I have already planned the study in detail
- I am currently conducting the study
- I already finished conducting the study

Do you plan to or did you already preregister the study?

- I plan to preregister the study, but have not started yet
- I am currently working on the preregistration
- I have already preregistered the study
- I have not/do not plan to preregister the study

We will now start presenting you the items of the template.

Please fill them in while thinking about the study you described on the previous page. You can answer the template in full sentences or in keywords. If you have already worked on a preregistration for your study, you are welcome to copy/paste information into the study items.

The responses to all template items (i.e., all personal information you share about your study) will be kept strictly confidential.

M1. Time point of registration

Please answer this template item, having your own study in mind.

[Please choose] 

Please give us feedback about the item.

Please explain why you selected this answer.

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

M1. Time point of registration

- *Registration prior to creation of data*
- *Registration prior to any human observation of the data*
- *Registration prior to accessing the data*
- *Registration prior to analysis of the data*
- *Other (please specify; might include if T1 longitudinal data has been analyzed, but T2 has not yet been analyzed)*

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

M2. Proposal: Use of pre-existing data (re-analysis or secondary data analysis)

Will pre-existing data be used in the planned study? If yes, indicate if the data were previously published and specify the source of the data (e.g., DOI or APA style reference of original publication). Specify your level of knowledge of the data (e.g., descriptive statistics from previous publications), whether or not this is relevant for the hypotheses of the present study, and how it is assured that you are unaware of results or statistical patterns in the data of relevance to the present hypotheses.

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

In case of pre-existing data, can you think of any examples how it can be assured that someone is unaware of the results or statistical patterns in the data of relevance for the present hypotheses?

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

M2. Proposal: Use of pre-existing data (re-analysis or secondary data analysis)

Will pre-existing data be used in the planned study? If yes, indicate if the data were previously published and specify the source of the data (e.g., DOI or APA style reference of original publication). Specify your level of knowledge of the data (e.g., descriptive statistics from previous publications), whether or not this is relevant for the hypotheses of the present study, and how it is assured that you are unaware of results or statistical patterns in the data of relevance to the present hypotheses.

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

M3. Sample size, power and precision

(1) Relevant sample sizes: e.g., single groups, multiple groups, and sample sizes (or sample ranges) found at each level of multilevel data.
(2) Provide power analysis (e.g. power curves) for fixed-N designs. For sequential designs, indicate your 'stopping rule' such as the points at which you intend to be viewing your data and in any way analyzing them (e.g., t-tests and correlations, but even descriptively such as with histograms).

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

How would you interpret the term "sample sizes (or sample ranges) found at each level of multilevel data"?

How well do you understand what this item requires from you / how you can fill it out?

very poorly understood very well understood

If there were ambiguities – which terms were unclear?

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

M3. Sample size, power and precision

(1) Relevant sample sizes: e.g., single groups, multiple groups, and sample sizes (or sample ranges) found at each level of multilevel data.
(2) Provide power analysis (e.g. power curves) for fixed-N designs. For sequential designs, indicate your 'stopping rule' such as the points at which you intend to be viewing your data and in any way analyzing them (e.g., t-tests and correlations, but even descriptively such as with histograms).

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research
- Other:

M4. Participant recruitment, selection, and compensation

Indicate (a) methods of recruitment (e.g., subject pool advertisement, community events, crowdsourcing platforms, snowball sampling); (b) selection and inclusion/exclusion criteria (e.g., age, visual acuity, language facility); (c) details of any stratification sampling used; (d) planned participant characteristics (gender, race/ethnicity, sexual orientation and gender identity, SES, education level, age, disability or health status, geographic location); (e) compensation amount and method (e.g., same payment to all, pay based on performance, lottery).

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

How well do you understand what this item requires from you / how you can fill it out?

very poorly understood very well understood

If there were ambiguities – which terms were unclear?

Did you think about the recruitment and selection in this detail before (when planning your study), or did you just now think about them because of this question?

- I did think about it in detail before
- I did think about it a little bit
- I did not think about it before (but I planned to)
- I did not have in mind before that all these aspects are important

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

M4. Participant recruitment, selection, and compensation

Indicate (a) methods of recruitment (e.g., subject pool advertisement, community events, crowdsourcing platforms, snowball sampling); (b) selection and inclusion/exclusion criteria (e.g., age, visual acuity, language facility); (c) details of any stratification sampling used; (d) planned participant characteristics (gender, race/ethnicity, sexual orientation and gender identity, SES, education level, age, disability or health status, geographic location); (e) compensation amount and method (e.g., same payment to all, pay based on performance, lottery).

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

M5. How will participant drop-out be handled?

Indicate any special treatment for participants who drop out (e.g., there is follow-up in a manner different from the main sample, last value carried forward) or whether participants are replaced.

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

M5. How will participant drop-out be handled?

Indicate any special treatment for participants who drop out (e.g., there is follow-up in a manner different from the main sample, last value carried forward) or whether participants are replaced.

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

M6. Masking of participants and researchers

Indicate all forms of masking and/or allocation concealment (e.g., administrators, data collectors, raters, confederates are unaware of condition to which participants were assigned).

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

M6. Masking of participants and researchers

Indicate all forms of masking and/or allocation concealment (e.g., administrators, data collectors, raters, confederates are unaware of condition to which participants were assigned).

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research
- Other:

M7. Data cleaning and screening

Indicate all steps related to data quality control, e.g., outlier treatment, identification of missing data, checks for normality, etc.

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

How would you differentiate this item from AP3 (Data preprocessing)?

AP3. Data preprocessing

Describe all data manipulations that are performed in preparation of the main analyses, e.g. calculation of variables or scales, recoding, any data transformations, preprocessing steps for imaging or physiological data (or refer to publicly accessible standard lab procedure, cf. T12).

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

M7. Data cleaning and screening

Indicate all steps related to data quality control, e.g., outlier treatment, identification of missing data, checks for normality, etc.

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

M8. How will missing data be handled?

Indicate any procedures that will be applied during the analysis to deal with missing data, such as (a) case deletions; (b) averaging across scale items (to handle missing items for some); (c) test of missingness (MAR, MCAR, MNAR assumptions); (d) imputation procedures (FIML vs. MI); (e) Intention to treat analysis and per protocol analysis (as appropriate).

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

How well do you understand what this item requires from you / how you can fill it out?

very poorly understood very well understood

If there were ambiguities – which terms were unclear?

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

M8. How will missing data be handled?

Indicate any procedures that will be applied during the analysis to deal with missing data, such as (a) case deletions; (b) averaging across scale items (to handle missing items for some); (c) test of missingness (MAR, MCAR, MNAR assumptions); (d) imputation procedures (FIML vs. MI); (e) Intention to treat analysis and per protocol analysis (as appropriate).

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

Now, we would like to ask you a few questions concerning the evaluation of the whole template. If you accidentally closed the template in your additional tab, please open it again and use it to answer the following items.

Link to the template: click [here](#)

For this study, you have answered the template in a questionnaire form, which does not resemble its final format (there will be several different formats). Nevertheless, please try to answer the question based on your present impression of the template.

Considering the whole template (also the items that you did not need to answer), how well did you understand the template?

not at all very well

How well does the template fit your research area?

not at all very well

Regarding most of your studies, does the template cover the most important aspects?

not at all very well

I found the template unnecessarily complex.

disagree agree

I thought the template was easy to use.

disagree agree

How would you rate the overall balance between comprehensiveness and parsimony?

Selecting the middle option means "appropriate comprehensiveness".

too parsimonious too comprehensive

How effective would you rate this template in helping you to create a preregistration?

very ineffective very effective

How satisfied are you with the use of the template?

very dissatisfied very satisfied

Please indicate your opinion regarding the below-listed items.

How likely would you use the template in the future to create your preregistrations?

How likely would you recommend using this template to a colleague?

Page 26

E2

Compared to your favorite template (which you specified at the beginning of the study), did this template convince you less, equally or even more?

less more

What would you improve about the template?

How would you prefer using this template?

Please select every option that applies to you.

- As an Excel template (table format)
- As an RMarkdown template (e.g., RStudio)
- As a Jupyter Notebook that can be adjusted and exported as PDF
- As an online form
- As a Word/Google Doc template for downloading
- Other:

Please indicate your opinion regarding the below-listed items.

My supervisor/institution is very supportive of the use of preregistration for my studies.	Disagree	<input type="radio"/>	Agree						
I have control over using preregistration.	Disagree	<input type="radio"/>	Agree						
Using the template to preregister my studies would increase my productivity.	Disagree	<input type="radio"/>	Agree						
I have the resources necessary to use preregistration.	Disagree	<input type="radio"/>	Agree						
I find the template flexible to interact with.	Disagree	<input type="radio"/>	Agree						
Using the template would enhance my effectiveness in research.	Disagree	<input type="radio"/>	Agree						
People who influence my behavior think that I should use preregistration.	Disagree	<input type="radio"/>	Agree						
I use preregistration because of the proportion of coworkers who preregister.	Disagree	<input type="radio"/>	Agree						
Using the template would improve my research.	Disagree	<input type="radio"/>	Agree						
It is my decision alone if I want to preregister or not.	Disagree	<input type="radio"/>	Agree						
I have the knowledge necessary to use preregistration.	Disagree	<input type="radio"/>	Agree						
Learning to use the template would be easy for me.	Disagree	<input type="radio"/>	Agree						
I find the template easy to use.	Disagree	<input type="radio"/>	Agree						
In psychology, preregistration is currently voluntary.	Disagree	<input type="radio"/>	Agree						

Please indicate your opinion regarding the below-listed items.

Overall, I believe that the template is easy to use.	Disagree	<input type="radio"/>	Agree						
I think that using preregistration fits well with the way I like to work.	Disagree	<input type="radio"/>	Agree						
Working with the template is so complicated, it is difficult to understand what is going on.	Disagree	<input type="radio"/>	Agree						
In general, the research community supports the use of preregistration.	Disagree	<input type="radio"/>	Agree						
Specific persons (or groups) are available for assistance with preregistration difficulties.	Disagree	<input type="radio"/>	Agree						
I would find the template useful in my research.	Disagree	<input type="radio"/>	Agree						
Other people decide if I preregister or not.	Disagree	<input type="radio"/>	Agree						
Using the template would make it easier to do my research.	Disagree	<input type="radio"/>	Agree						
Using preregistration is a status symbol in my organization.	Disagree	<input type="radio"/>	Agree						

Do you have any further comments about this study?

Further Information

Your email address will be saved separately from all other data and no junction will be possible, thus anonymity is preserved. Your email address will be treated with strict confidentiality. We will delete all email addresses of persons that want to receive a preprint after the preprint was published and sent, but at the latest after 12 months.

As soon as you select that you want to receive a preprint, you can enter your email address.

I am interested in the results of this study. Please send me a **preprint** by email.

Last Page

Thank you for completing this questionnaire!

We would like to thank you very much for helping us.

As mentioned at the beginning, we are conducting this study to test the usability of a new preregistration template, the **Psychological Research Preregistration-Quantitative (aka PRP-QUANT) Template**, which was created by a task force, consisting of members of the German Psychological Society (DGPs), the American Psychological Association (APA), the British Psychological Society (BPS), the Center for Open Science (COS), and the Leibniz Institute for Psychology (ZPID, also see [Preregistration in Psychology](http://dx.doi.org/10.23668/psycharchives.4584)). The template is available at: <http://dx.doi.org/10.23668/psycharchives.4584>

This usability study is based on the four aspects of usability as defined by Shackel (2009) which are 1) learnability, 2) flexibility, 3) effectiveness, and 4) attitude.

Besides descriptively testing the template's usability, we also want to investigate what might influence the intention to use the preregistration template in the future. As postulated by the unified theory of acceptance and use of technology (UTAUT, Venkatesh, Morris, Davis & Davis, 2003; Venkatesh, Thong & Xu, 2016), we expect that the intention to use the template is influenced by performance expectancy (moderated by gender and age), effort expectancy (moderated by gender, age, and experience), and social influence (moderated by gender, age, experience, and voluntariness of use).

If you have any more questions or remarks, please feel free to contact the main experimenter Lisa Spitzer (ls@leibniz-psychology.org).

Your answers were transmitted, you may close the browser window or tab now.

[Lisa Spitzer](#), Leibniz Institute for Psychology (ZPID) - 2021



Dear reader,

This study is part of the meta-scientific research that is currently underway at the **Leibniz Institute for Psychology (ZPID)**. We are an open science institute located in Germany, and we strive to support researchers in psychology and related fields by providing an excellent (digital) infrastructure adapted to their needs.

With this study, we want to test the usability of a recently published preregistration template, the **Psychological Research Preregistration-Quantitative (PRP-QUANT) Template**, which was created by a task force consisting of members of the **German Psychological Society (DGPs)**, the **American Psychological Association (APA)**, the **British Psychological Society (BPS)**, the **Center for Open Science (COS)**, and the **Leibniz Institute for Psychology (ZPID)**.

A preregistration is a study plan that is registered with an independent party (e.g., a repository) before the data has been collected or examined. Upon registration, a time-stamped record of the study plan is created that will eventually be published (possibly after an embargo period). If the study plan changes afterwards, either a new record needs to be created or the deviations will be apparent when comparing the preregistration to the final manuscript. Thus, preregistration allows a transparent presentation of what was planned at a certain time point and what changes may have been made to a study until its publication.

The present preregistration template was created to help you create such preregistrations by providing a form that includes the most important information to preregister which can be filled in. It is tailored to the field of psychology, focusing on quantitative research.

Your feedback will help us to understand whether the template is written clearly and whether it helps you to plan your study by capturing the important aspects of your research. Therefore, your participation would be extremely valuable as results will be used to adapt the template as well as ZPID's preregistration service. The study takes about 30 to 45 minutes to complete.

Participant Information and Informed Consent

Overall information: We invite you to participate in our study, which serves as a usability study for a new preregistration template. Your participation in this study is voluntary. You may choose not to participate. The purpose of this form is to provide you with all information necessary to decide if you want to participate. Please read it carefully. If you have any questions that are not answered by this form, please do not hesitate to contact us (see below).

Aim of this study: This study was designed to test the usability of a new preregistration template which was created by a task force consisting of members of the German Psychological Society (DGPs), the American Psychological Association (APA), the British Psychological Society (BPS), the Center for Open Science (COS), and the Leibniz Institute for Psychology (ZPID).

Procedure: In the following, we will show you the new preregistration template. You will be asked to fill out a subset of the template's items, as well as evaluate single items and the overall template. Additionally, you will be asked to answer a short questionnaire. Response formats for the items include rating scales, single or multiple choice, or open text input. The study will take about 30-45 minutes to complete. Participants that do not belong to the target sample will be excluded at the beginning of the study.

Collection and processing of personal information: We collect data on gender, age, native language, country, academic group, research topic, and membership in a psychological society. Based on these data, it will not be possible to identify specific persons. Your email address (optional for receiving further information) is collected separately, i.e., it is not possible for us to link it in any way to your responses in the study. Furthermore, we do not collect other identifying information such as your name or IP address. Anonymity is therefore maintained.

Possible risks: No known risks are associated with participation in this study.

Withdraw participation: Participation is voluntary. You have the right to refuse participation and withdraw at any time without any consequence whatsoever and without stating any reasons for doing so.

Data processing and usage of anonymized data: Anonymity of your responses is preserved, and no individual association will be possible, as email addresses will be collected separately. Your data will be processed in agreement with the legal provisions of the European law (General Data Protection Regulation, more information is available here: <https://gdpr.eu/tag/gdpr/>). The results of our study will presumably be published as a scientific research article. Furthermore, the anonymized data will be made publicly available in line with transparent and open research practices, as recommended by the German Research Foundation (DFG) and the German Psychological Society (DGPs).

Contact address: Lisa Spitzer, PhD Student at the Leibniz Institute for Psychology (ZPID), ls@leibniz-psychology.org

Informed consent: I have received the participant information about the aims and procedure of the study, read it carefully, and fully understood it. If I have any more questions, I know that I can contact the examiner. I have had enough time to decide for or against participation in this study. By selecting "I agree with these conditions" below, I declare that I understood this information and want to participate voluntarily in this study. I have understood that I can withdraw my participation in the study at any point without stating any reasons for doing so, and without any negative consequences. I agree that my data may be processed and shared as described above.

I agree with these conditions.

Where did you learn about this survey?

- APA email
- BPS email
- DGPs email
- Twitter
- Other:

What is your gender?

- male
- female
- other
- prefer not to answer

How old are you?

years

Is English your native language?

- yes
- no

Are you a researcher and does your research fall within the scope of psychology?

- Yes, I am a researcher and my research falls within the scope of psychology.
- No, I am not a researcher or my research does not fall within the scope of psychology.

How many studies have you preregistered before?

▼

To which academic group do you belong?

- PhD student
- Postdoc
- Professor – which type (e.g., full, associate, junior):
- Other:

In which country is your lab located?

All country names are displayed in English.

▼

What APA division do you belong to?

Please select every option that applies to you.

- 1. Society for General Psychology
- 2. Society for the Teaching of Psychology
- 3. Society for Experimental Psychology and Cognitive Science
- 5. Quantitative and Qualitative Methods
- 6. Society for Behavioral Neuroscience and Comparative Psychology
- 7. Developmental Psychology
- 8. Society for Personality and Social Psychology
- 9. Society for the Psychological Study of Social Issues (SPSSI)
- 10. Society for the Psychology of Aesthetics, Creativity and the Arts
- 12. Society of Clinical Psychology
- 13. Society of Consulting Psychology
- 14. Society for Industrial and Organizational Psychology
- 15. Educational Psychology
- 16. School Psychology
- 17. Society of Counseling Psychology
- 18. Psychologists in Public Service
- 19. Society for Military Psychology
- 20. Adult Development and Aging
- 21. Applied Experimental and Engineering Psychology
- 22. Rehabilitation Psychology
- 23. Society for Consumer Psychology
- 24. Society for Theoretical and Philosophical Psychology
- 25. Behavior Analysis
- 26. Society for the History of Psychology
- 27. Society for Community Research and Action: Division of Community Psychology
- 28. Psychopharmacology and Substance Abuse
- 29. Society for the Advancement of Psychotherapy
- 30. Society of Psychological Hypnosis
- 31. State, Provincial and Territorial Psychological Association Affairs
- 32. Society for Humanistic Psychology
- 33. Intellectual and Developmental Disabilities/Autism Spectrum Disorder
- 34. Society for Environmental, Population and Conservation Psychology
- 35. Society for the Psychology of Women
- 36. Society for the Psychology of Religion and Spirituality
- 37. Society for Child and Family Policy and Practice
- 38. Society for Health Psychology
- 39. Society for Psychoanalysis and Psychoanalytic Psychology
- 40. Society for Clinical Neuropsychology
- 41. American Psychology-Law Society
- 42. Psychologists in Independent Practice
- 43. Society for Couple and Family Psychology
- 44. Society for the Psychology of Sexual Orientation and Gender Diversity
- 45. Society for the Psychological Study of Culture, Ethnicity and Race
- 46. Society for Media Psychology and Technology
- 47. Society for Sport, Exercise and Performance Psychology
- 48. Society for the Study of Peace, Conflict and Violence: Peace Psychology Division
- 49. Society of Group Psychology and Group Psychotherapy
- 50. Society of Addiction Psychology
- 51. Society for the Psychological Study of Men and Masculinities

- 52. International Psychology
- 53. Society of Clinical Child and Adolescent Psychology
- 54. Society of Pediatric Psychology
- 55. American Society for the Advancement of Pharmacotherapy
- 56. Trauma Psychology

What BPS division do you belong to?

Please select every option that applies to you.

- The Division of Academics, Researchers and Teachers in Psychology
- The Division of Clinical Psychology
- The Division of Counselling Psychology
- The Division of Educational and Child Psychology
- The Division of Forensic Psychology
- The Division of Health Psychology
- The Division of Neuropsychology
- The Division of Occupational Psychology
- The Division of Sport and Exercise Psychology
- The Scottish Division of Educational Psychology

What DGPs division do you belong to?

Please select every option that applies to you.

- General Psychology
- Industrial and organizational Psychology
- Biopsychology and Neuropsychology
- Personality Psychology and Psychological Diagnostics
- Developmental psychology
- History of psychology
- Health psychology
- Clinical psychology and psychotherapy
- Media psychology
- Methods and evaluation
- Educational psychology
- Forensic psychology
- Social psychology
- Environmental psychology
- Traffic psychology

What is your main research topic?

- General psychology
- Neuroscience/neuropsychology
- Educational psychology
- Research methods
- Experimental/cognitive psychology
- Differential psychology
- Clinical psychology
- Organizational psychology
- Developmental psychology
- Social psychology
- Other:

What is your preferred preregistration template (i. e., form that lists important elements to preregister and can be used by researchers to create their own preregistration)?

- OSF-Standard Pre-Data Collection Registration
- van 't Veer & Giner-Sorolla (2016)
- AsPredicted
- Center for Open Science Preregistration Challenge Template (OSF)
- Replication Recipe (Brandt et al., 2013)
- I don't use templates.
- I don't know.
- Other template:

Why do you prefer the selected template?

Please select every option that applies to you.

- It fits well with my research area
- It is time-efficient
- It was the first template I used
- It is recommended by my supervisor
- It is comprehensive
- It is easy to use
- It is preferred by my co-authors/colleagues/peers
- It is the only template I know
- Other:

Template

Before answering individual items of the template, we will present you the whole **Psychological Research Preregistration-Quantitative (PRP-QUANT) Template**. To open the template in an additional tab, please open the link below. The items that we will ask you to fill out are highlighted in green.

Link to the template: click [here](#)

Important: Please leave the template open in an additional tab the whole time. This way you can have a look at the template throughout the study.

Now, please take a look at the whole template to get a general impression. Below, you are asked to answer a control question that shows us that you have successfully opened the template.

Control: What information does the template item M14 request?

This question's purpose is to check if you could open the template successfully.

- Theoretical background
- Data cleaning and screening
- Sample size, power and precision
- Study Procedures

Unfortunately, you did not answer our control question correctly. Please try again to open the template in an additional tab (please leave this tab open the whole time!).

Link to the template: click [here](#)

Then, please try again to answer our control question below to proceed.

Control: What information does the template item M14 request?

This question's purpose is to check if you could successfully open the template.

Please correct your response.

- Study Procedures
- Theoretical background
- Data cleaning and screening
- Sample size, power and precision

Task

On the following pages, we will ask for your input on some of the template's items. You will not be asked to answer all template items. Instead, we will ask for your input on the items that are highlighted in green.

Think of one of your own studies and fill out the fields as if you were preregistering this study. We will then ask you for your feedback on the items (how important, how understandable, etc). If you are not currently conducting a study, you can also answer the questions based on one of your previous studies.

First, please give us some general information about the study based on which you will fill out the template items.

Note: All responses will be recorded anonymously. Furthermore, all information you provide about your study when filling out the template will be treated with strict confidentiality and will not be shared (i.e., when sharing the data after data collection, this information will be deleted). Thus, there is no risk of scooping (i.e., no one can steal your study idea).

Please provide a short overall description of the study.

How far have you progressed with the study, what is the current status?

- I have just started planning the study
- I have already planned the study in detail
- I am currently conducting the study
- I already finished conducting the study

Do you plan to or did you already preregister the study?

- I plan to preregister the study, but have not started yet
- I am currently working on the preregistration
- I have already preregistered the study
- I have not/do not plan to preregister the study

We will now start presenting you the items of the template.

Please fill them in while thinking about the study you described on the previous page. You can answer the template in full sentences or in keywords. If you have already worked on a preregistration for your study, you are welcome to copy/paste information into the study items.

The responses to all template items (i.e., all personal information you share about your study) will be kept strictly confidential.

M1. Time point of registration

Please answer this template item, having your own study in mind.

[Please choose] 

Please give us feedback about the item.

Please explain why you selected this answer.

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

M1. Time point of registration

- *Registration prior to creation of data*
- *Registration prior to any human observation of the data*
- *Registration prior to accessing the data*
- *Registration prior to analysis of the data*
- *Other (please specify; might include if T1 longitudinal data has been analyzed, but T2 has not yet been analyzed)*

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

M2. Proposal: Use of pre-existing data (re-analysis or secondary data analysis)

Will pre-existing data be used in the planned study? If yes, indicate if the data were previously published and specify the source of the data (e.g., DOI or APA style reference of original publication). Specify your level of knowledge of the data (e.g., descriptive statistics from previous publications), whether or not this is relevant for the hypotheses of the present study, and how it is assured that you are unaware of results or statistical patterns in the data of relevance to the present hypotheses.

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

In case of pre-existing data, can you think of any examples how it can be assured that someone is unaware of the results or statistical patterns in the data of relevance for the present hypotheses?

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

M2. Proposal: Use of pre-existing data (re-analysis or secondary data analysis)

Will pre-existing data be used in the planned study? If yes, indicate if the data were previously published and specify the source of the data (e.g., DOI or APA style reference of original publication). Specify your level of knowledge of the data (e.g., descriptive statistics from previous publications), whether or not this is relevant for the hypotheses of the present study, and how it is assured that you are unaware of results or statistical patterns in the data of relevance to the present hypotheses.

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

M10. Type of study and study design

Indicate the type of study (e.g., experimental, observational, crosssectional vs. longitudinal, single case, clinical trial) and planned study design (e.g., between vs. within subjects, factorial, repeated measures, etc.), number of factors and factor levels, etc..

Please answer this template item, having your own study in mind.

Please give us feedback about the item.**Is it possible for you to classify your study into these categories?**

- yes
- no

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

M10. Type of study and study design

Indicate the type of study (e.g., experimental, observational, cross-sectional vs. longitudinal, single case, clinical trial) and planned study design (e.g., between vs. within subjects, factorial, repeated measures, etc.), number of factors and factor levels, etc.

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

M11. Randomization of participants and/or experimental materials

If applicable, describe how participants are assigned to conditions or treatments, how stimuli are assigned to conditions, and how presentation of tests, trials, etc. is randomized. Indicate the randomization technique and whether constraints were applied (pseudo-randomization). Indicate any type of balancing across participants (e.g., assignments of responses to hands, etc.).

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

How many different types of randomization are inquired about in this item (and which would you describe)?

How would you describe constraints on randomization?

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

M11. Randomization of participants and/or experimental materials

If applicable, describe how participants are assigned to conditions or treatments, how stimuli are assigned to conditions, and how presentation of tests, trials, etc. is randomized. Indicate the randomization technique and whether constraints were applied (pseudo-randomization). Indicate any type of balancing across participants (e.g., assignments of responses to hands, etc.).

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research
- Other:

M12. Measured variables, manipulated variables, covariates

This section shall be used to unambiguously clarify which variables are used to operationalize the hypotheses specified above (item I3). Please (a) list all measured variables, and (b) explicitly state the functional role of each variable (i.e., independent variable, dependent variable, covariate, mediator, moderator). It is important to (c) specify for each hypothesis how it is operationalized, i.e., which variables will be used to test the respective hypothesis and how the hypothesis will be operationally defined in terms of these variables. The description here shall be consistent with the statistical analysis plans specified under AP6 (see template).

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

How beneficial do you find it that related topics are referenced (e.g., I3: Hypothesis)?

not beneficial very beneficial

Do you think it would be easy for you to combine the informations from I3 (Hypothesis), M12 (Measured variables, manipulated variables, covariates) and AP6 (Statistical models) throughout the preregistration?

very easy very difficult

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

M12. Measured variables, manipulated variables, covariates

This section shall be used to unambiguously clarify which variables are used to operationalize the hypotheses specified above (item I3). Please (a) list all measured variables, and (b) explicitly state the functional role of each variable (i.e., independent variable, dependent variable, covariate, mediator, moderator). It is important to (c) specify for each hypothesis how it is operationalized, i.e., which variables will be used to test the respective hypothesis and how the hypothesis will be operationally defined in terms of these variables. The description here shall be consistent with the statistical analysis plans specified under AP6 (see template).

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

M13. Study Materials

Please describe any relevant study materials. This could include, for example, stimulus materials used for experiments, questionnaires used for rating studies, training protocols for intervention studies, etc.

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

What possible materials did you most think about when answering this question?

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

M13. Study Materials

Please describe any relevant study materials. This could include, for example, stimulus materials used for experiments, questionnaires used for rating studies, training protocols for intervention studies, etc.

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

M14. Study Procedures

Please describe here any relevant information about how the study will be conducted, e.g., the number and timing of measurement time points for longitudinal research, the number of blocks or runs per session of an experiment, laboratory setting, the group size in group testing, the number of training sessions in interventional studies, questionnaire administration for online assessments, etc.

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

M14. Study Procedures

Please describe here any relevant information about how the study will be conducted, e.g., the number and timing of measurement time points for longitudinal research, the number of blocks or runs per session of an experiment, laboratory setting, the group size in group testing, the number of training sessions in interventional studies, questionnaire administration for online assessments, etc.

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

Now, we would like to ask you a few questions concerning the evaluation of the whole template. If you accidentally closed the template in your additional tab, please open it again and use it to answer the following items.

Link to the template: click [here](#)

For this study, you have answered the template in a questionnaire form, which does not resemble its final format (there will be several different formats). Nevertheless, please try to answer the question based on your present impression of the template.

Considering the whole template (also the items that you did not need to answer), how well did you understand the template?

not at all very well

How well does the template fit your research area?

not at all very well

Regarding most of your studies, does the template cover the most important aspects?

not at all very well

I found the template unnecessarily complex.

disagree agree

I thought the template was easy to use.

disagree agree

How would you rate the overall balance between comprehensiveness and parsimony?

Selecting the middle option means "appropriate comprehensiveness".

too parsimonious too comprehensive

How effective would you rate this template in helping you to create a preregistration?

very ineffective very effective

How satisfied are you with the use of the template?

very dissatisfied very satisfied

Please indicate your opinion regarding the below-listed items.

How likely would you use the template in the future to create your preregistrations?

How likely would you recommend using this template to a colleague?

Page 24

E2

Compared to your favorite template (which you specified at the beginning of the study), did this template convince you less, equally or even more?

less ○ ○ ○ ○ ○ ○ ○ more

What would you improve about the template?

How would you prefer using this template?

Please select every option that applies to you.

- As a Jupyter Notebook that can be adjusted and exported as PDF
- As an Excel template (table format)
- As a Word/Google Doc template for downloading
- As an online form
- As an RMarkdown template (e.g., RStudio)
- Other:

Please indicate your opinion regarding the below-listed items.

I have the resources necessary to use preregistration.	Disagree	<input type="radio"/>	Agree						
Using the template to preregister my studies would increase my productivity.	Disagree	<input type="radio"/>	Agree						
Using the template would improve my research.	Disagree	<input type="radio"/>	Agree						
Learning to use the template would be easy for me.	Disagree	<input type="radio"/>	Agree						
I have control over using preregistration.	Disagree	<input type="radio"/>	Agree						
In psychology, preregistration is currently voluntary.	Disagree	<input type="radio"/>	Agree						
I have the knowledge necessary to use preregistration.	Disagree	<input type="radio"/>	Agree						
I find the template flexible to interact with.	Disagree	<input type="radio"/>	Agree						
My supervisor/institution is very supportive of the use of preregistration for my studies.	Disagree	<input type="radio"/>	Agree						
I find the template easy to use.	Disagree	<input type="radio"/>	Agree						
People who influence my behavior think that I should use preregistration.	Disagree	<input type="radio"/>	Agree						
I use preregistration because of the proportion of coworkers who preregister.	Disagree	<input type="radio"/>	Agree						
It is my decision alone if I want to preregister or not.	Disagree	<input type="radio"/>	Agree						
Using the template would enhance my effectiveness in research.	Disagree	<input type="radio"/>	Agree						

Please indicate your opinion regarding the below-listed items.

Overall, I believe that the template is easy to use.	Disagree	<input type="radio"/>	Agree						
I would find the template useful in my research.	Disagree	<input type="radio"/>	Agree						
Other people decide if I preregister or not.	Disagree	<input type="radio"/>	Agree						
In general, the research community supports the use of preregistration.	Disagree	<input type="radio"/>	Agree						
Using preregistration is a status symbol in my organization.	Disagree	<input type="radio"/>	Agree						
Working with the template is so complicated, it is difficult to understand what is going on.	Disagree	<input type="radio"/>	Agree						
Specific persons (or groups) are available for assistance with preregistration difficulties.	Disagree	<input type="radio"/>	Agree						
I think that using preregistration fits well with the way I like to work.	Disagree	<input type="radio"/>	Agree						
Using the template would make it easier to do my research.	Disagree	<input type="radio"/>	Agree						

Do you have any further comments about this study?

Further Information

Your email address will be saved separately from all other data and no junction will be possible, thus anonymity is preserved. Your email address will be treated with strict confidentiality. We will delete all email addresses of persons that want to receive a preprint after the preprint was published and sent, but at the latest after 12 months.

As soon as you select that you want to receive a preprint, you can enter your email address.

I am interested in the results of this study. Please send me a **preprint** by email.

Last Page

Thank you for completing this questionnaire!

We would like to thank you very much for helping us.

As mentioned at the beginning, we are conducting this study to test the usability of a new preregistration template, the **Psychological Research Preregistration-Quantitative (aka PRP-QUANT) Template**, which was created by a task force, consisting of members of the German Psychological Society (DGPs), the American Psychological Association (APA), the British Psychological Society (BPS), the Center for Open Science (COS), and the Leibniz Institute for Psychology (ZPID, also see [Preregistration in Psychology](http://dx.doi.org/10.23668/psycharchives.4584)). The template is available at: <http://dx.doi.org/10.23668/psycharchives.4584>

This usability study is based on the four aspects of usability as defined by Shackel (2009) which are 1) learnability, 2) flexibility, 3) effectiveness, and 4) attitude.

Besides descriptively testing the template's usability, we also want to investigate what might influence the intention to use the preregistration template in the future. As postulated by the unified theory of acceptance and use of technology (UTAUT, Venkatesh, Morris, Davis & Davis, 2003; Venkatesh, Thong & Xu, 2016), we expect that the intention to use the template is influenced by performance expectancy (moderated by gender and age), effort expectancy (moderated by gender, age, and experience), and social influence (moderated by gender, age, experience, and voluntariness of use).

If you have any more questions or remarks, please feel free to contact the main experimenter Lisa Spitzer (ls@leibniz-psychology.org).

Your answers were transmitted, you may close the browser window or tab now.

[Lisa Spitzer](#), Leibniz Institute for Psychology (ZPID) - 2021



Dear reader,

This study is part of the meta-scientific research that is currently underway at the **Leibniz Institute for Psychology (ZPID)**. We are an open science institute located in Germany, and we strive to support researchers in psychology and related fields by providing an excellent (digital) infrastructure adapted to their needs.

With this study, we want to test the usability of a recently published preregistration template, the **Psychological Research Preregistration-Quantitative (PRP-QUANT) Template**, which was created by a task force consisting of members of the **German Psychological Society (DGPs)**, the **American Psychological Association (APA)**, the **British Psychological Society (BPS)**, the **Center for Open Science (COS)**, and the **Leibniz Institute for Psychology (ZPID)**.

A preregistration is a study plan that is registered with an independent party (e.g., a repository) before the data has been collected or examined. Upon registration, a time-stamped record of the study plan is created that will eventually be published (possibly after an embargo period). If the study plan changes afterwards, either a new record needs to be created or the deviations will be apparent when comparing the preregistration to the final manuscript. Thus, preregistration allows a transparent presentation of what was planned at a certain time point and what changes may have been made to a study until its publication.

The present preregistration template was created to help you create such preregistrations by providing a form that includes the most important information to preregister which can be filled in. It is tailored to the field of psychology, focusing on quantitative research.

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Possible risks: No known risks are associated with participation in this study.

Withdraw participation: Participation is voluntary. You have the right to refuse participation and withdraw at any time without any consequence whatsoever and without stating any reasons for doing so.

Data processing and usage of anonymized data: Anonymity of your responses is preserved, and no individual association will be possible, as email addresses will be collected separately. Your data will be processed in agreement with the legal provisions of the European law (General Data Protection Regulation, more information is available here: <https://gdpr.eu/tag/gdpr/>). The results of our study will presumably be published as a scientific research article. Furthermore, the anonymized data will be made publicly available in line with transparent and open research practices, as recommended by the German Research Foundation (DFG) and the German Psychological Society (DGPs).

Contact address: Lisa Spitzer, PhD Student at the Leibniz Institute for Psychology (ZPID), ls@leibniz-psychology.org

Informed consent: I have received the participant information about the aims and procedure of the study, read it carefully, and fully understood it. If I have any more questions, I know that I can contact the examiner. I have had enough time to decide for or against participation in this study. By selecting "I agree with these conditions" below, I declare that I understood this information and want to participate voluntarily in this study. I have understood that I can withdraw my participation in the study at any point without stating any reasons for doing so, and without any negative consequences. I agree that my data may be processed and shared as described above.

I agree with these conditions.

Where did you learn about this survey?

- APA email
- BPS email
- DGPs email
- Twitter
- Other:

What is your gender?

- female
- male
- other
- prefer not to answer

How old are you?

years

Is English your native language?

- yes
- no

Are you a researcher and does your research fall within the scope of psychology?

- Yes, I am a researcher and my research falls within the scope of psychology.
- No, I am not a researcher or my research does not fall within the scope of psychology.

How many studies have you preregistered before?

▼

To which academic group do you belong?

- PhD student
- Postdoc
- Professor – which type (e.g., full, associate, junior):
- Other:

In which country is your lab located?

All country names are displayed in English.

▼

What APA division do you belong to?

Please select every option that applies to you.

- 1. Society for General Psychology
- 2. Society for the Teaching of Psychology
- 3. Society for Experimental Psychology and Cognitive Science
- 5. Quantitative and Qualitative Methods
- 6. Society for Behavioral Neuroscience and Comparative Psychology
- 7. Developmental Psychology
- 8. Society for Personality and Social Psychology
- 9. Society for the Psychological Study of Social Issues (SPSSI)
- 10. Society for the Psychology of Aesthetics, Creativity and the Arts
- 12. Society of Clinical Psychology
- 13. Society of Consulting Psychology
- 14. Society for Industrial and Organizational Psychology
- 15. Educational Psychology
- 16. School Psychology
- 17. Society of Counseling Psychology
- 18. Psychologists in Public Service
- 19. Society for Military Psychology
- 20. Adult Development and Aging
- 21. Applied Experimental and Engineering Psychology
- 22. Rehabilitation Psychology
- 23. Society for Consumer Psychology
- 24. Society for Theoretical and Philosophical Psychology
- 25. Behavior Analysis
- 26. Society for the History of Psychology
- 27. Society for Community Research and Action: Division of Community Psychology
- 28. Psychopharmacology and Substance Abuse
- 29. Society for the Advancement of Psychotherapy
- 30. Society of Psychological Hypnosis
- 31. State, Provincial and Territorial Psychological Association Affairs
- 32. Society for Humanistic Psychology
- 33. Intellectual and Developmental Disabilities/Autism Spectrum Disorder
- 34. Society for Environmental, Population and Conservation Psychology
- 35. Society for the Psychology of Women
- 36. Society for the Psychology of Religion and Spirituality
- 37. Society for Child and Family Policy and Practice
- 38. Society for Health Psychology
- 39. Society for Psychoanalysis and Psychoanalytic Psychology
- 40. Society for Clinical Neuropsychology
- 41. American Psychology-Law Society
- 42. Psychologists in Independent Practice
- 43. Society for Couple and Family Psychology
- 44. Society for the Psychology of Sexual Orientation and Gender Diversity
- 45. Society for the Psychological Study of Culture, Ethnicity and Race
- 46. Society for Media Psychology and Technology
- 47. Society for Sport, Exercise and Performance Psychology
- 48. Society for the Study of Peace, Conflict and Violence: Peace Psychology Division
- 49. Society of Group Psychology and Group Psychotherapy
- 50. Society of Addiction Psychology
- 51. Society for the Psychological Study of Men and Masculinities

- 52. International Psychology
- 53. Society of Clinical Child and Adolescent Psychology
- 54. Society of Pediatric Psychology
- 55. American Society for the Advancement of Pharmacotherapy
- 56. Trauma Psychology

What BPS division do you belong to?

Please select every option that applies to you.

- The Division of Academics, Researchers and Teachers in Psychology
- The Division of Clinical Psychology
- The Division of Counselling Psychology
- The Division of Educational and Child Psychology
- The Division of Forensic Psychology
- The Division of Health Psychology
- The Division of Neuropsychology
- The Division of Occupational Psychology
- The Division of Sport and Exercise Psychology
- The Scottish Division of Educational Psychology

What DGPs division do you belong to?

Please select every option that applies to you.

- General Psychology
- Industrial and organizational Psychology
- Biopsychology and Neuropsychology
- Personality Psychology and Psychological Diagnostics
- Developmental psychology
- History of psychology
- Health psychology
- Clinical psychology and psychotherapy
- Media psychology
- Methods and evaluation
- Educational psychology
- Forensic psychology
- Social psychology
- Environmental psychology
- Traffic psychology

What is your main research topic?

- Clinical psychology
- Organizational psychology
- Educational psychology
- Social psychology
- General psychology
- Research methods
- Developmental psychology
- Differential psychology
- Neuroscience/neuropsychology
- Experimental/cognitive psychology
- Other:

What is your preferred preregistration template (i. e., form that lists important elements to preregister and can be used by researchers to create their own preregistration)?

- Center for Open Science Preregistration Challenge Template (OSF)
- Replication Recipe (Brandt et al., 2013)
- OSF-Standard Pre-Data Collection Registration
- AsPredicted
- van 't Veer & Giner-Sorolla (2016)
- I don't use templates.
- I don't know.
- Other template:

Why do you prefer the selected template?

Please select every option that applies to you.

- It is recommended by my supervisor
- It fits well with my research area
- It is preferred by my co-authors/colleagues/peers
- It is comprehensive
- It is easy to use
- It is the only template I know
- It was the first template I used
- It is time-efficient
- Other:

Template

Before answering individual items of the template, we will present you the whole **Psychological Research Preregistration-Quantitative (PRP-QUANT) Template**. To open the template in an additional tab, please open the link below. The items that we will ask you to fill out are highlighted in green.

Link to the template: click [here](#)

Important: Please leave the template open in an additional tab the whole time. This way you can have a look at the template throughout the study.

Now, please take a look at the whole template to get a general impression. Below, you are asked to answer a control question that shows us that you have successfully opened the template.

Control: What information does the template item M14 request?

This question's purpose is to check if you could open the template successfully.

- Sample size, power and precision
- Study Procedures
- Data cleaning and screening
- Theoretical background

Unfortunately, you did not answer our control question correctly. Please try again to open the template in an additional tab (please leave this tab open the whole time!).

Link to the template: click [here](#)

Then, please try again to answer our control question below to proceed.

Control: What information does the template item M14 request?

This question's purpose is to check if you could successfully open the template.

Please correct your response.

- Data cleaning and screening
- Theoretical background
- Sample size, power and precision
- Study Procedures

Task

On the following pages, we will ask for your input on some of the template's items. You will not be asked to answer all template items. Instead, we will ask for your input on the items that are highlighted in green.

Think of one of your own studies and fill out the fields as if you were preregistering this study. We will then ask you for your feedback on the items (how important, how understandable, etc). If you are not currently conducting a study, you can also answer the questions based on one of your previous studies.

First, please give us some general information about the study based on which you will fill out the template items.

Note: All responses will be recorded anonymously. Furthermore, all information you provide about your study when filling out the template will be treated with strict confidentiality and will not be shared (i.e., when sharing the data after data collection, this information will be deleted). Thus, there is no risk of scooping (i.e., no one can steal your study idea).

Please provide a short overall description of the study.

How far have you progressed with the study, what is the current status?

- I have just started planning the study
- I have already planned the study in detail
- I am currently conducting the study
- I already finished conducting the study

Do you plan to or did you already preregister the study?

- I plan to preregister the study, but have not started yet
- I am currently working on the preregistration
- I have already preregistered the study
- I have not/do not plan to preregister the study

We will now start presenting you the items of the template.

Please fill them in while thinking about the study you described on the previous page. You can answer the template in full sentences or in keywords. If you have already worked on a preregistration for your study, you are welcome to copy/paste information into the study items.

The responses to all template items (i.e., all personal information you share about your study) will be kept strictly confidential.

AP1. Criteria for post-data collection exclusion of participants, if any

Describe all criteria that will lead to the exclusion of a participant's data (e.g. performance criteria, non-responding in physiological measures, incomplete data). Be as specific as possible.

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

What are the differences between the here-inquired exclusion criteria and those of M4 (participant recruitment, selection, and compensation)?

M4. Participant recruitment, selection, and compensation

Indicate (a) methods of recruitment (e.g., subject pool advertisement, community events, crowdsourcing platforms, snowball sampling); (b) selection and inclusion/exclusion criteria (e.g., age, visual acuity, language facility); (c) details of any stratification sampling used; (d) planned participant characteristics (Gender, Race/Ethnicity, Sexual Orientation and Gender Identity, SES, education level, age, disability or health status, geographic location); (e) compensation amount and method (e.g., same payment to all, pay based on performance, lottery).

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

AP1. Criteria for post-data collection exclusion of participants, if any

Describe all criteria that will lead to the exclusion of a participant's data (e.g. performance criteria, non-responding in physiological measures, incomplete data). Be as specific as possible.

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research
- Other:

AP2. Criteria for post-data collection exclusions on trial level (if applicable)

Describe all criteria that will lead to the exclusion of a trial or item (e.g. statistical outliers, response time criteria). Be as specific as possible.

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

Did you think about this aspect before reading the item in this template (when planning your study)?

- yes
- no

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

AP2. Criteria for post-data collection exclusions on trial level (if applicable)

Describe all criteria that will lead to the exclusion of a trial or item (e.g. statistical outliers, response time criteria). Be as specific as possible.

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research
- Other:

AP3. Data preprocessing

Describe all data manipulations that are performed in preparation of the main analyses, e.g. calculation of variables or scales, recoding, any data transformations, preprocessing steps for imaging or physiological data (or refer to publicly accessible standard lab procedure, cf. T12).

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

How would you differentiate this item from M7 (Data cleaning and screening)?

M7. Data cleaning and screening

Indicate all steps related to data quality control, e.g., outlier treatment, identification of missing data, checks for normality, etc.

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

AP3. Data preprocessing

Describe all data manipulations that are performed in preparation of the main analyses, e.g. calculation of variables or scales, recoding, any data transformations, preprocessing steps for imaging or physiological data (or refer to publicly accessible standard lab procedure, cf. T12).

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research
- Other:

AP4. Reliability analysis (if applicable)

Specify the type of scale reliability that will be estimated, whether it is internal consistency (e.g. Cronbach's alpha, omega), test-retest reliability, or some other form (e.g., a confirmatory factor analysis incorporating multiple factors as sources of variance). In a study involving measure development, researchers should specify criteria for removing items from measures a priori (e.g., largest factor loading magnitude, smallest drop in alpha-if-item removed).

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

This item should only be answered "if applicable" – what would be cases in which the item should be answered?

Do you know all mentioned types of scale reliability?

yes

no, I did not know:

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

AP4. Reliability analysis (if applicable)

Specify the type of scale reliability that will be estimated, whether it is internal consistency (e.g. Cronbach's alpha, omega), test-retest reliability, or some other form (e.g., a confirmatory factor analysis incorporating multiple factors as sources of variance). In a study involving measure development, researchers should specify criteria for removing items from measures a priori (e.g., largest factor loading magnitude, smallest drop in alpha-if-item removed).

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research
- Other:

AP5. Descriptive statistics

Specify which descriptive statistics will be calculated for which variables. If appropriate, specify which indices of effect size will be used. If descriptive statistics are linked to specific hypotheses, explicitly link the information given here to the respective hypothesis.

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

AP5. Descriptive statistics

Specify which descriptive statistics will be calculated for which variables. If appropriate, specify which indices of effect size will be used. If descriptive statistics are linked to specific hypotheses, explicitly link the information given here to the respective hypothesis.

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research

Other:

AP6. Statistical models (provide for each hypothesis if varies)

Specify the statistical model (e.g. t test, ANOVA, LMM) that will be used to test each of your hypotheses. Give all necessary information about model specification (e.g., variables, interactions, planned contrasts) and follow-up analyses. Include model selection criteria (e.g., fit indices), corrections for multiple testing, and tests for statistical violations, if applicable. Wherever unclear, describe how effect sizes will be calculated (e.g., for d-values, use the control SD or the pooled SD).

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

AP6. Statistical models (provide for each hypothesis if varies)

Specify the statistical model (e.g. t test, ANOVA, LMM) that will be used to test each of your hypotheses. Give all necessary information about model specification (e.g., variables, interactions, planned contrasts) and follow-up analyses. Include model selection criteria (e.g., fit indices), corrections for multiple testing, and tests for statistical violations, if applicable. Wherever unclear, describe how effect sizes will be calculated (e.g., for d-values, use the control SD or the pooled SD).

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research
- Other:

AP7. Inference criteria

Specify the criteria used for inferences (e.g., p values, Bayes factors, effect size measures) and the thresholds for accepting or rejecting your hypotheses. If possible, define a smallest effect size of interest. If inference criteria differ between hypotheses, specify separately for each hypothesis and respective statistical model by explicitly referring to the numbers of the hypotheses. Describe which effect size measures will be reported and how they are calculated.

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

AP7. Inference criteria

Specify the criteria used for inferences (e.g., p values, Bayes factors, effect size measures) and the thresholds for accepting or rejecting your hypotheses. If possible, define a smallest effect size of interest. If inference criteria differ between hypotheses, specify separately for each hypothesis and respective statistical model by explicitly referring to the numbers of the hypotheses. Describe which effect size measures will be reported and how they are calculated.

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research
- Other:

AP8. Exploratory analysis (optional)

Describe any exploratory analyses to be conducted with your data. Include here any planned analyses that are not confirmatory in the sense of being a direct test of one of the specified hypotheses.

Please answer this template item, having your own study in mind.

Please give us feedback about the item.

Do you feel it is appropriate to include exploratory analyses in a preregistration?

- Definitely Yes
- Maybe Yes
- Unsure
- Maybe Not
- Definitely Not

How do you perceive the importance of this item for preregistering your study?

not important at all very important

What would you add, change, or remove about the item?

AP8. Exploratory analysis (optional)

Describe any exploratory analyses to be conducted with your data. Include here any planned analyses that are not confirmatory in the sense of being a direct test of one of the specified hypotheses.

Why did you choose not to answer this template item?

- The item is optional
- It was a mistake
- I didn't know what to answer
- I don't like the item
- The item does not apply to my research
- Other:

Now, we would like to ask you a few questions concerning the evaluation of the whole template. If you accidentally closed the template in your additional tab, please open it again and use it to answer the following items.

Link to the template: click [here](#)

For this study, you have answered the template in a questionnaire form, which does not resemble its final format (there will be several different formats). Nevertheless, please try to answer the question based on your present impression of the template.

Considering the whole template (also the items that you did not need to answer), how well did you understand the template?

not at all very well

How well does the template fit your research area?

not at all very well

Regarding most of your studies, does the template cover the most important aspects?

not at all very well

I found the template unnecessarily complex.

disagree agree

I thought the template was easy to use.

disagree agree

How would you rate the overall balance between comprehensiveness and parsimony?

Selecting the middle option means "appropriate comprehensiveness".

too parsimonious too comprehensive

How effective would you rate this template in helping you to create a preregistration?

very ineffective very effective

How satisfied are you with the use of the template?

very dissatisfied very satisfied

Please indicate your opinion regarding the below-listed items.

How likely would you use the template in the future to create your preregistrations?

How likely would you recommend using this template to a colleague?

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E2

Compared to your favorite template (which you specified at the beginning of the study), did this template convince you less, equally or even more?

less more

What would you improve about the template?

How would you prefer using this template?

Please select every option that applies to you.

- As an RMarkdown template (e.g., RStudio)
- As an Excel template (table format)
- As a Word/Google Doc template for downloading
- As an online form
- As a Jupyter Notebook that can be adjusted and exported as PDF
- Other:

Please indicate your opinion regarding the below-listed items.

Learning to use the template would be easy for me.	Disagree	<input type="radio"/>	Agree						
My supervisor/institution is very supportive of the use of preregistration for my studies.	Disagree	<input type="radio"/>	Agree						
I have the knowledge necessary to use preregistration.	Disagree	<input type="radio"/>	Agree						
People who influence my behavior think that I should use preregistration.	Disagree	<input type="radio"/>	Agree						
In psychology, preregistration is currently voluntary.	Disagree	<input type="radio"/>	Agree						
Using the template would improve my research.	Disagree	<input type="radio"/>	Agree						
It is my decision alone if I want to preregister or not.	Disagree	<input type="radio"/>	Agree						
Using the template to preregister my studies would increase my productivity.	Disagree	<input type="radio"/>	Agree						
I have control over using preregistration.	Disagree	<input type="radio"/>	Agree						
I find the template flexible to interact with.	Disagree	<input type="radio"/>	Agree						
I use preregistration because of the proportion of coworkers who preregister.	Disagree	<input type="radio"/>	Agree						
I have the resources necessary to use preregistration.	Disagree	<input type="radio"/>	Agree						
Using the template would enhance my effectiveness in research.	Disagree	<input type="radio"/>	Agree						
I find the template easy to use.	Disagree	<input type="radio"/>	Agree						

Please indicate your opinion regarding the below-listed items.

Using the template would make it easier to do my research.	Disagree	<input type="radio"/>	Agree						
Working with the template is so complicated, it is difficult to understand what is going on.	Disagree	<input type="radio"/>	Agree						
I would find the template useful in my research.	Disagree	<input type="radio"/>	Agree						
Overall, I believe that the template is easy to use.	Disagree	<input type="radio"/>	Agree						
I think that using preregistration fits well with the way I like to work.	Disagree	<input type="radio"/>	Agree						
Other people decide if I preregister or not.	Disagree	<input type="radio"/>	Agree						
Specific persons (or groups) are available for assistance with preregistration difficulties.	Disagree	<input type="radio"/>	Agree						
Using preregistration is a status symbol in my organization.	Disagree	<input type="radio"/>	Agree						
In general, the research community supports the use of preregistration.	Disagree	<input type="radio"/>	Agree						

Do you have any further comments about this study?

Further Information

Your email address will be saved separately from all other data and no junction will be possible, thus anonymity is preserved. Your email address will be treated with strict confidentiality. We will delete all email addresses of persons that want to receive a preprint after the preprint was published and sent, but at the latest after 12 months.

As soon as you select that you want to receive a preprint, you can enter your email address.

I am interested in the results of this study. Please send me a **preprint** by email.

Last Page

Thank you for completing this questionnaire!

We would like to thank you very much for helping us.

As mentioned at the beginning, we are conducting this study to test the usability of a new preregistration template, the **Psychological Research Preregistration-Quantitative (aka PRP-QUANT) Template**, which was created by a task force, consisting of members of the German Psychological Society (DGPs), the American Psychological Association (APA), the British Psychological Society (BPS), the Center for Open Science (COS), and the Leibniz Institute for Psychology (ZPID, also see [Preregistration in Psychology](http://dx.doi.org/10.23668/psycharchives.4584)). The template is available at: <http://dx.doi.org/10.23668/psycharchives.4584>

This usability study is based on the four aspects of usability as defined by Shackel (2009) which are 1) learnability, 2) flexibility, 3) effectiveness, and 4) attitude.

Besides descriptively testing the template's usability, we also want to investigate what might influence the intention to use the preregistration template in the future. As postulated by the unified theory of acceptance and use of technology (UTAUT, Venkatesh, Morris, Davis & Davis, 2003; Venkatesh, Thong & Xu, 2016), we expect that the intention to use the template is influenced by performance expectancy (moderated by gender and age), effort expectancy (moderated by gender, age, and experience), and social influence (moderated by gender, age, experience, and voluntariness of use).

If you have any more questions or remarks, please feel free to contact the main experimenter Lisa Spitzer (ls@leibniz-psychology.org).

Your answers were transmitted, you may close the browser window or tab now.

[Lisa Spitzer](#), Leibniz Institute for Psychology (ZPID) - 2021