# Study Proposal Submission Form for HTI studies

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| **Part 1: General Study Information** | | | | |
| **1** | Supervisor(s) | Daniël Lakens | | |
| **2** | Study name | Determining factors that influence the judgement of credibility of published findings – pilot survey | | |
| **3** | Study type  (Normal, Education, External or Other. If “Other”, please explain). See Guidelines HTI Experiments document. | Normal [Aim for 90% power if relevant, pay following HTI guidelines]  Education [Sensitivity analysis, student/volunteer participants]  External [Follows rules of external organization]  Other, namely: conceptual pilot study | | |
| **4** | Researcher | Peder M. Isager  Anna van ‘t Veer | | |
| **5** | [If Applicable] Study is part of an educational course with code: | |  | |
| **6** | [If Applicable] A similar study has been done with Archie number: | |  | |
| **7** | [If Applicable] Proposal already approved by External review board:  Add name, date of approval, and contact details of the ERB. | |  | |
| **8** | Number of Participants | Total Duration | | Payment per Participant |
| 5-20 | 15 minutes | | € 0 |
| **9** | Total money needed | € 0 | | |
| **10** | Expected start date | 23-9-2019 | | |
| **11** | Expected end date | 7-10-2019 | | |
| **12** | Funding Name & Number | VIDI Grant 452-17-013 | | |
| **13** | Location where the study will be conducted | Online (Qualtrics) | | |
| **14** | Description of the research population, exclusion criteria | We will select a convenience sample of researchers who work closely with fMRI data in their research. All solicited participants will either have completed or be in the process of completing a PhD. | | |
| **15** | Short description of the research question | **What information do researchers rely on when they judge the corroboration/credibility of published empirical findings?**  The purpose of the pilot study is two-fold:   1. To make sure that participants understand the intended meaning of the questions we ask. This will be important in the design of later survey research to address our research question. 2. To gain a rough initial understanding of how experts in fMRI research evaluate the corroboration/credibility of published findings. This will be important in the design of a planned study in which we will code information about the credibility of published research. | | |
| **16** | Description of the Method or Manipulation | Survey Design | | |
| **17** | Description of the Stimuli and/or Measures | Participants will be asked to provide an open answer to the question: “If you were to assess the credibility of a finding from fMRI within your own field of expertise, what information would you want to have access to?”  In addition, we will ask participants to rate the extent to which different kinds of information about a finding (sample size, effect size, p-value, etc.) give an indication of credibility of the findings.  Finally we will ask participants to provide feedback on their comprehension of the questions we asked them. | | |

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| **Part 2: Study Design and Sample Size Justification** | | |
| **18** | Description of study **design,** all factors/conditions, number of sessions, and within/between factors. | Simple survey design. Participants answer questions once and are all subjected to the same version of the survey. The pilot is conducted for exploratory purposes. We will use the answers participants provide to inform our decision about what factors to code in the main study, but will not formally test or estimate effects. |
| **19** | List of (statistical) hypotheses you aim to test (e.g., related to your statistical tests), or parameters you will estimate (if applicable). Distinguish between **primary** and **secondary** objectives and specify **direction** and **alpha** level for each test. (if relevant). | There are no preregistered statistical hypotheses. We aim to provide a rough indication of the rank order of importance of the different factors we intend to code. However, the main purpose of the pilot is to get qualitative feedback about the design of our main study, to identify whether the information we intend to code bear some relation to information that researchers find important, and to make sure that we have not overlooked important information in our coding scheme. As such, we do not have an explicit statistical hypothesis to test or parameter that we wish to estimate. |
| **20** | Sample size justification.  For power analysis: **Justify** the effect size you aim to power for, for all primary objectives listed above. Take into account **direction** and **alpha level** in power analysis. Plan for the presence *and* the absence of the predicted effect.  In case of multiple primary objectives each objective should have its own power calculation, and if needed, corrections for **multiple comparisons** should be taken into account. Add **screenshots** or output of statistical calculations.  For estimation, justify desired accuracy. | We aim to collect data from a minimum of 10 and a maximum of 20 participants.  The collected sample size should be big enough to:   1. Give us an understanding of whether our questions are generally comprehensible to responders who fit our inclusion criteria. 2. Give us a very rough estimate of the perceived utility of different kinds of information for judging credibility of findings. 3. Ensure that someone will notice if there are obvious flaws in our current coding scheme.     Once data from 10 participants are collected we will examine the data and evaluate whether further data collection is necessary. We will continue data collection until the sample appears saturated (i.e. when qualitative information is repeated from participant to participant) or until the maximum sample size is reached.  The data we collect is not intended to inform any statistical conclusions of the main study. We acknowledge that we will not be able to achieve a meaningful level of accuracy for inferential conclusions we may want to draw. If we decide that we do want to interpret results from this survey inferentially, we will submit a separate study design with an updated sample size justification to properly address the relevant questions. |

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| **Part 3: Data Management Plan & Privacy** | | |
| **21** | Will you store personal information that will allow participants to be identified from their data? See [VSNU draft](https://www.vsnu.nl/files/documenten/Domeinen/Governance/Consultatieversie%20-%20VSNU%20Gedragscode%20voor%20gebruik%20van%20persoonsgegevens%20in%20wetenschappelijk%20onderzoek.pdf). | No  Yes, and I declare I will follow the general data protection regulation (GDPR). I will inform participants about the personal data I collect. I will inform participants about their right to have their data deleted (up to some time after participation). I will store data in a way that ensures appropriate security of the personal data, including protection against unauthorized processing or accidental loss of data. |
| **22** | Will you share anonymized data (e.g., upon publication in a public repository)? | No  Yes, and I will inform participants about how their data will be shared, and ask consent to share their data. I will, to the best of my knowledge and ability, make sure the data not contain information that can identify participants. |
| **Part 4: Physical and Psychological Well-being of Participants** | | |
| **23** | Do you expect any adverse events, or any undesirable experience occurring to a subject during the study?  *Report all unexpected or spontaneously reported adverse events by participants to the ethical review board immediately.* | Concentration / Stress tasks  Misleading  Physiological measurements  Eating, drinking  Extreme emotions  Intimacy  Visual or auditory discomfort  Nausea (e.g., motion sickness)  Other, namely \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **24** | Provide an explanation for any checked items above. |  |
| **25** | Will you provide feedback based on the study that can have negative consequences for the participant? If yes, how can they find support? | No ☐ Yes, namely: |