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Abstract
A rigorous field of research is constructed on reproducible findings that allow researchers to confidently formulate hypotheses and build theories from accessible literature. As a nascent area of research, the study of Autonomous Sensory Meridian Response (ASMR) has the opportunity to become such a field through the adoption of transparent and open research practices. In this paper I outline five such practices that can help achieve this aim: Preregistration, sharing data and code, sharing materials, posting preprints, and collaboration. Failing to adopt such principles could allow the proliferation of findings that are irreproducible and delay the progress of the field.

Keywords: Autonomous Sensory Meridian Response, ASMR, Open Science, Preregistration

Background
Autonomous Sensory Meridian Response (ASMR) is a sensory experience characterized by a tingling sensation on the crown of the head and feelings of calmness, relaxation, and altered consciousness. The experience is triggered by audiovisual stimuli commonly found in popular online YouTube videos including whispering, tapping and scratching sounds, close personal attention, and expert hand movements. People seek out and watch these videos to experience ASMR, which produces self-reported psychological benefits including reducing stress, anxiety, depression, loneliness, and insomnia (Barratt & Davis, 2015). In May 2022, ‘ASMR’ was the 3rd most popular search term on YouTube in the world, with nearly 15 million searches (Hardwick, 2022).

Despite huge public popularity, ASMR has only recently become the subject of scientific enquiry. First described in academic literature by Ahuja (2013), the first empirical investigation into ASMR was published by Barratt and Davis (2015), an online survey describing the phenomenon, common triggers and reasons for engaging with ASMR content. Since then, the number of published papers on ASMR has increased year on year (Figure 1), indicating a growing academic interest in the phenomenon. Researchers have subsequently investigated the triggers of ASMR (Barratt et al., 2017), the physiological concomitants (Poerio et al., 2018), personality correlates and co-occurrences with other sensory experiences (Bedwell & Butcher, 2020; Fredborg et al., 2017, 2018; Keizer et al., 2020; Lee et al., 2019; McErlean & Banissy, 2017, 2018; McErlean & Osborne-Ford, 2020), underlying brain regions (Lochte et al., 2018; Smith et al., 2019a; Smith et al., 2019b; Smith et al., 2017), and developed reliable self-report measures (Roberts et al., 2019) and curated stimuli sets (Liu & Zhou, 2019).

As a new field of study, there are countless novel directions open for ASMR researchers to take. This may lead to an incentive to conduct and publish research quickly in order to become the first to set foot
Figure 1. Number of publications published per year about “Autonomous Sensory Meridian Response” from 2013 - 2021, as indexed on Web of Science.

on an untouched and fertile soil of scientific discovery. It is well documented that such publishing incentives can blind researchers to biases that encourage the over-interpretation of data and the use of questionable research practices (Giner-Sorolla, 2012; Higginson & Munafò, 2016). In turn, this leads to an accumulation in the literature of spurious results, inaccurate estimates of effect sizes, and findings that are irreproducible (Ioannidis, 2005; Munafò et al., 2017).

This is a particular concern for a new and developing field, where a ‘hard core’ of replicated and accepted findings have yet to be established (Lakatos, 1978). To develop such a core, and allow researchers to confidently build upon the findings of previous research, it is paramount that such findings must be obtained using unbiased and rigorous practices and that these methods are clear and transparent to allow others to replicate methodologies as closely as possible. Therefore, adopting transparent and rigorous research practices will accelerate the accumulation of ‘established’ ASMR findings, and subsequently, theory-building and the field at large. Conversely, utilising traditional ‘closed’ research practices is likely to facilitate the publication of findings and results that do not replicate (Smaldino & McElreath, 2016), thus leading future researchers to pursue unproductive lines of inquiry and delaying the development of the field. It is theorised that developing fields go through three stages of differentiation, mobilisation, and legitimacy building (Hambrick & Chen, 2008). ASMR research has a clear unique focus, which helps to differentiate it from the study of other sensory experiences. However, it currently lacks mobilisation in terms of organisation and resources, and legitimacy in terms of rigorous methodologies and compelling evidence. Hambrick and Chen (2008) argue that the growth and legitimacy of a field depends on the quality of the research produced: “Scholars in more established fields will look for indicators that the new area’s research resembles a style they hold in high regard, a style that is ‘on the right track.’”
In this paper, I outline five practices that ASMR researchers can use to improve the legitimacy of the field, accelerate the mobilisation of the research community, and increase the transparency, rigour, and reproducibility of their research: Pre-registration, sharing data and code, sharing study materials, preprints and post-prints, and collaboration. For each, I will explain their applicability to ASMR research with examples.

**Pre-Registration**

Pre-registration is the process of publicly and transparently reporting a study's design and analysis plan prior to data collection (Nosek et al., 2018). It typically takes the form of a time-stamped online document that details a study's design, hypotheses, sampling plan, and data processing and analysis plan. The purpose of pre-registration is to preclude the use of questionable research practices including ‘p-hacking’ (exploiting undisclosed flexibility in data analysis plans to obtain significant results) and ‘HARKing’ (Hypothesizing After the Results are Known) to present such significant findings as predicted a priori (Chambers, 2017).

This does not mean that studies that were not pre-registered have definitely engaged in p-hacking, or trying multiple analyses until a significant result is obtained, but that it is impossible to tell. Only by reporting one’s analysis plan in advance can someone say with confidence that there was no undisclosed flexibility in the analysis. It is important to note that p-hacking is often unconscious and the result of human, fallible researchers operating with cognitive biases and within a career progression framework that incentivises publication of significant results. Faced with a multitude of analytical decisions to take regarding participant exclusion, data quality, and questionnaire scoring, researchers analysing data without a pre-defined plan end up walking in a “garden of forking paths” (Gelman & Loken, 2019), with each path leading to a different statistical outcome. The combination of the ease of post-hoc rationalisation of findings, confirmation bias, and the incentives to discover and publish significant results mean that researchers are likely to publish and justify analyses that turn out as significant, even though alternative analyses may have produced different findings (Chambers, 2017). A hypothetical example below using ASMR research illustrates this, where two research teams in alternate universes each recruit 250 ASMR participants and administer them with (amongst other things) the ASMR-Checklist (Fredborg et al., 2017) and the “Poor attentional control” subscale of the Short Imaginal Process Inventory (SIPI) (Huba et al., 1982). Both research teams obtain exactly the same dataset, and test exactly the same hypothesis: that there is a relationship between ASMR and attentional control. The first research team, Anna and Abel, proceed with data analysis as follows:

When analysing their data, they decide to exclude 10 people who report in a qualitative response that they experience atypical ASMR (e.g. they only experience it in response to real-world triggers), in order to get a more homogenous sample of only those who get a typical ASMR experience from videos. When scoring the SIPI, they follow the instructions from Huba et al (1982) and begin with a baseline score of 42, and add/subtract the scores of specific questions to produce an overall score. They notice the distribution of the SIPI scores are non-normal due to skewness and a number of extreme scores. They follow textbook instructions to use a non-parametric test for the analysis. They find no significant relationship between ASMR and Poor Attentional Control (rho = -.135, p = .091) and conclude that there is not sufficient evidence from the study to say that the constructs are related. In their discussion, they suggest future research may want to focus on alternative constructs.

In the alternate universe, two other researchers (Brett and Bushra), test the same hypothesis with the same dataset, but in a different way:

When analysing their data, they decide to keep in those who report that they experience atypical ASMR, as they think that ASMR is probably quite a heterogeneous experience overall and they do not want to make a judgement on what ‘counts’ as ASMR. However, when scoring the ASMR-checklist, they decide to exclude the trigger of “watching someone apply makeup” from the scoring, as they find a relatively low response rate for this trigger, and believe it could be unduly influenced by gender and cultural norms. When scoring the SIPI, they use a traditional scoring method of recoding negative items and computing a mean score of the items. They notice the distribution of the SIPI scores are non-normal due to skewness and a number of extreme scores. They follow textbook instructions to log-transform the data before analysis. They find a significant negative relationship between ASMR and Poor Attentional Control (r = -.195, p = .035) and conclude the constructs are related. In their discussion, they suggest future research should explore this relationship further.

In both of these examples, there were a number of decisions the researchers had to take regarding the analysis: who to exclude, how to score the questionnaires, which analysis to use. Many of these decisions were data-driven: Brett and Bushra would not have decided to remove that specific trigger from the checklist scoring.
until seeing the relatively low score. All of these decisions were reasonable and justified, but done so post-hoc. The particular decisions made led to different conclusions. In both these cases, the eventual $p$-value was accepted and interpreted as evidence for or against their pre-planned hypothesis, and the finding incorporated into the literature. Due to the small existing literature base and lack of current theory, it would not be difficult to come up with plausible explanations of why ASMR may (or may not) be related to poor attentional control, and to suggest diverging directions for future research. However, the different testing the same a priori hypothesis, their analyses were essentially exploratory, meaning that it would be wrong to draw any firm conclusions from the data.

Pre-registering analyses means that researchers have to think more carefully in advance about their hypotheses, and justify analysis decisions in advance: What ‘counts’ as ASMR for the research question I’m interested in? What criteria for data quality am I willing to accept? What are the psychometric properties of my questionnaire and is it suitable to answer the research question? Answering these questions may be difficult but not impossible with a bit of thought and knowledge of the literature and good methodological practice. One concern many researchers have with pre-registration is that it will prevent them from running exploratory tests, or will constrain their analysis. What if the data turns out nothing like they thought and they cannot run the test they preregistered? This concern is understandable but ill-founded. Pre-registration does not prevent researchers from performing or reporting non-preregistered analyses, or testing hypotheses that they thought of at a later date. However, it necessitates the accurate reporting of such tests as exploratory, and with it the implications for the lack of ‘hard’ inferences that can be drawn from the data. The commonly used procedure of Null Hypothesis Significance Testing (NHST) means that a proportion of ‘significant’ results are expected by chance. As exploratory analyses are by definition a search for potentially ‘chance’ findings, conclusions drawn from exploratory tests need to be replicated in order to add value to the literature. On the flip side, a statistical test that supports a pre-registered hypothesis allows one to draw much more confident inferences from the results and provides a much sturdier finding upon which to build. Studies can be pre-registered on websites including AsPredicted (http://aspredicted.org) or the Open Science Framework (OSF) (http://osf.io). An example of a pre-registration for an ASMR study (Poerio et al., 2022) can be found here: https://osf.io/pjq6s which we are happy for other researchers to use as a guide, although do not claim that it is a perfect example. O. Klein et al. (2018) present a useful guide for writing pre-registrations.

**Registered Reports.** A recent initiative in scientific publishing that utilises the idea of pre-registration for maximum benefit is the Registered Report (RR) (Chambers & Tzavella, 2020). An RR is a specific type of article, which is submitted to a journal prior to data collection. A researcher will outline the background and idea for their research, and submit this along with their methodology and pre-registration for the study they wish to run. At this point, the study goes out for peer review, and may return with revisions if necessary. Once the revisions have been satisfied, the journal will grant the paper “in principle acceptance”, meaning they guarantee to publish the subsequent results of the study, regardless of the outcomes. RRs therefore combine the methodological rigor of a pre-registered study with a commitment to publish null results if necessary, thus correcting for publication bias in the literature. Given that publication bias can severely hamper progress in a psychological field (Ferguson & Heene, 2012), the widespread use of RRs in the new field of ASMR research would help to prevent the problem of publication bias occurring in the first place. At the time of writing, journals that currently or will soon offer RRs that are likely to be open to publishing research on ASMR include: Affective Science; Attention, Perception, & Psychophysics; Cognition and Emotion; Consciousness and Cognition; Experimental Psychology; Frontiers in Psychology; International Journal of Psychophysiology; i-Perception; Journal of Personality and Social Psychology; Nature Human Behaviour; Neuroscience of Consciousness; Perception; PLOS ONE and Psychological Science. A full live list of journals that accept RRs can be found at: https://cos.io/rr/

**Sharing Data and Code**

As well as making data analysis decisions transparent via pre-registration, researchers should also share the data itself, and the analysis code used to produce the results. ‘Sharing’ in this context means making the data available on an accessible online repository, rather than authors responding to ad hoc requests to share data via email. Empirical research (and the personal experience of anyone who has done a meta-analysis) confirm that sharing data on an ad hoc basis is highly ineffective for a number of reasons including poor record keeping and authors changing institutions, and availability declines rapidly over time (Savage & Vickers, 2009; Vines et al., 2014; Wicherts et al., 2011; Wicherts et al., 2006).

Making data readily available has multiple benefits for cumulative science. The first is that when data is
made available, other researchers can check whether they agree with the conclusions drawn from the data by conducting their own analyses. This has already been evidenced in ASMR research: We (Hostler et al., 2019) reinterpreted the data from Cash et al. (2018) study by accessing the raw dataset and visualizing it in a different way than presented in the original paper. By doing this, we came to a different conclusion and therefore attempted to ‘correct’ the literature in the spirit of the self-correcting mechanism of science (Merton, 1974). This would not have been possible without access to the raw data.

The second benefit of providing raw data is that researchers can perform alternate analyses on the data that the original authors did not or could not, to maximise the utility of the original research. It is impossible to know what other researchers might find interesting or need to know about the data, and therefore not possible to know which statistics and analyses would need to be reported. A hypothetical example is that of a future meta-analyst who wishes to compute an overall effect size from past experimental ASMR research. Following the guidelines of Lakens (2013), they find that in order to compute an accurate effect size from previous research utilising within-subjects designs, they need information about the correlation ($r$) between the two repeated measures. This statistic is very rarely reported in studies, but by making the raw data available, it doesn’t have to be: the meta-analyst can download the data and calculate it themselves. Another example is that of McErlean and Osborne-Ford (2020) who were able to access the open data of Fredborg et al. (2018) and perform additional analyses to utilise the comparison of their findings.

A third benefit concerns the sharing of analysis code. This allows the computational reproducibility of the findings and is an important mechanism for error detection. By uploading the code used to produce the findings used in the paper, other researchers can see exactly ‘which buttons were pressed’ to reach the final response. However, this is the sort of question that could currently little knowledge about how the specific content of the videos used in the manuscript or supplementary materials, in case of broken links.

As ASMR research is in an infant stage, there is currently little knowledge about how the specific content and triggers in an ASMR video may affect the ASMR response. However, this is the sort of question that could prove to be important in future systematic reviews of ASMR research— if sufficient information is available to investigate it. Ensuring that the exact content of videos used in ASMR research is accessible will allow future researchers to perform additional analyses to facilitate the comparison of results.
Table 1
Issues and solutions for data sharing in ASMR research.

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<tr>
<th>Issue</th>
<th>Solution</th>
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<tr>
<td>Ethical concerns</td>
<td>Most data from ASMR experiments are unlikely to be particularly sensitive, but in some cases researchers may collect data that necessitates increased anonymity (e.g., data on mental health diagnoses), via the removal of potentially identifying information (e.g. age and gender). Participants must also consent for their data to be shared, so researchers should be careful to avoid claiming that data will be “kept confidential” or “destroyed” in their ethics documentation and participant information sheets.</td>
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<tr>
<td>Data comprehensibility</td>
<td>Shared data is only useful if other researchers can interpret it. Researchers should include supplementary “data dictionary” files alongside data files, to explain what each variable represents, and how any categorical variables have been coded.</td>
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<tr>
<td>Data accessibility</td>
<td>Where possible, data should be provided in file formats for non-proprietary software, for example .CSV files. Ideally, syntax or data analysis code should include any pre-processing of data, including scoring questionnaires and removing outliers, as well as analyses. File names should be machine readable, utilising underscores rather than spaces, and include information about what the file contains (e.g. “ASMR_Study1_EEGData.csv”).</td>
</tr>
<tr>
<td>Data storage</td>
<td>Data and analysis code files can often be hosted as supplementary files on journal websites, or institutional data repositories. However, hosting the data on a searchable repository such as the Open Science Framework (<a href="http://osf.io">http://osf.io</a>), Figshare (<a href="http://figshare.com">http://figshare.com</a>) or Zenodo (<a href="http://zenodo.org">http://zenodo.org</a>) can increase discoverability and utility, as well as allowing the researcher greater control over updating the file in future, if necessary.</td>
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meta-analysts to code for any number of factors – for example, which triggers are present; whether the ASMRtist is male or female – as moderating factors in analyses of ASMR effects.

In addition to sharing ASMR video materials used in research, researchers should utilise external repositories such as the Open Science Framework to share all their study materials including recruitment media, participant instructions, questionnaires, and flow-chart protocols. Whilst journal articles often have strict word limits on the amount of information that can be included in a method section, there are no such limits to uploading supplementary material in separate repositories, to which the DOIs can be linked to in the article itself. Sharing materials is one of the easiest transparency initiatives to introduce into a research workflow. For example, an entire online questionnaire created in Qualtrics can be downloaded as a .pdf and uploaded to the OSF with only a few clicks. The benefit is that other researchers can see exactly what information participants were told, how the study was set up, and which questions were asked, to allow the study to be replicated as closely as possible.

**Preprints & Post-prints**

The traditional publishing workflow dictates that the findings of a piece of research are only communicated to other scientists and the public after undergoing peer review when the study is published as a journal article. Preprints are online copies of manuscripts that shortcut this process, as they are uploaded to a repository prior to peer review and journal submission (Speidel & Spitzer, 2018). Given that peer review can often take several months before a study is published, preprints accelerate the dissemination of research findings, and thus the productivity and development of the entire field. Preprints also increase the visibility and discoverability of research, which can facilitate networking. They can also be used to communicate research that would otherwise sit in a “file drawer”, for example studies with null results, small sample sizes, or undergraduate projects (Sarabipour et al., 2019). Although researchers are encouraged to check individual journal policies, most journals do not regard preprints as ‘prior publication’ and
so they do not act as a disqualifier for eventual journal publication.

One common concern regarding preprints is that it is believed posting the results of findings online before publication could allow a researcher to be ‘scooped’ and their idea stolen. However, preprints are associated with a permanent DOI meaning that they have an established mark in the scientific record, and are indexed by Google Scholar and CrossRef. Therefore, posting a preprint can actually allow a researcher to indicate that they recorded a finding or idea first, without having to wait for ‘official’ publication. Practically speaking, it is also unlikely that another lab would have the time to run an entire study, write up the results, and submit and get it accepted for publication, in the time it takes for a posted preprint to be peer reviewed.

Most psychology researchers submit their preprints to the dedicated psychology preprint server PsyArXiv (https://psyarxiv.com/) but ASMR research could also be hosted on the server for “mind and contemplative practices” research, MindRxiv (https://mindrxiv.org/), bioRxiv for biological mechanisms (https://biorxiv.org) or a geographical server such as AfricaRXiv (https://osf.io/preprints/africarxiv/).

Post-prints

Confusingly, the term ‘preprint’ is sometimes also used to refer to a manuscript uploaded after publication, to circumvent publisher paywalls. These ‘post-prints’ are a common way to allow for ‘Green’ Open Access, where authors can upload a non-typeset copy of their article to their personal, institutional, or academic social networking webpage (e.g. http://researchgate.net; http://academia.edu) if their actual article is not published Open Access in the journal itself. Sharing post-prints of articles is an increasingly common requirement of publicly funded research, and so it is likely that many ASMR researchers already do this. However, it is worth reiterating that if an ASMR research article is not published ‘Gold’ Open Access, authors should try to ensure that the non-formatted manuscript is available in as many places as possible, to allow for maximum discoverability and use by the ASMR research community.

Collaboration

The final practice is a broader call for more collaborative research in ASMR, and for researchers to combine resources together in the spirit of ‘team science’ (Munafo et al., 2017) to conduct larger, well-powered investigations into the phenomena. Large, multi-lab studies are becoming increasingly common in psychological science (e.g. Camerer et al., 2018; Ebersole et al., 2016; R. A. Klein et al., 2014; R. A. Klein et al., 2018; Open Science Collaboration, 2015) as researchers realise the benefits that pooling resources can have, particularly when it comes to participant recruitment, traditionally one of the more practically difficult aspects of psychological research.

Underpowered studies remain the norm in psychology (Maxwell, 2004) and researchers commonly overestimate the power in their own studies (Bakker et al., 2016). This is compounded by the fact that traditional methods of calculating sample size underestimate the number of participants needed, due to imprecise measures of effects: Taking effect sizes from previous studies at face value can underestimate the number of participants needed by a factor of ten (Anderson et al., 2017). As an example, when accounting for publication bias and Type I error, researchers wishing to replicate a published study finding a between-two-groups effect size of $d = 0.68$ could require up to a total of $N = 662$ to achieve power of .73. Whilst online research methods can facilitate collecting data from large samples like these, many researchers will want to conduct ASMR studies in the laboratory to control for environmental factors, standardize participant experience, or employ physiological or neuroscientific measures. However, the time and resources needed to collect large sample sizes in-person can make this sort of data collection prohibitive.

The solution is for researchers to work together to pool resources. Whilst it may be difficult for a single lab to recruit and test 600 participants in-person, it would be feasible for six labs to work together and collect 100 participants each for a single, high-powered study. Utilising the other principles of transparent research, the researchers involved could share materials and pre-register the design of the study together to ensure consistency in the set-up of the experiment and data collection. The data itself would then be shared and analysed together with a shared transparent analysis code, so that all contributiors could see exactly how the final results were reached.

A relevant example of a large, multi-lab study investigating an emotional, sensory phenomenon is Zickfeld et al. (2019). Researchers from 23 different laboratories in 15 countries across five continents worked together to investigate “Kama Muta”, the distinct emotional experience of ‘being moved’. The KAVIAR Project (KAMA muta Validity Investigation Across Regions) members worked together to standardise measurement of the phenomenon and construct a questionnaire, and then recruited a total sample of 3542 participants from across their respective labs. The study was pre-registered and conducted according to open research principles, and readers are encouraged to ex-
plore the study OSF page as an exemplar of the organisation of a multi-lab project: https://osf.io/cydaw/. The resulting study provided convincing evidence of the validity of Kama Muta and the measurement tool used. As a new seminal paper on the topic, the study has already been cited 21 times in the literature.

Multi-lab collaborations of course require greater time and resources than individual lab studies, and come with unique challenges including integrating multiple datasets, multi-site ethical approval, translation issues, and the logistical headache of coordinating dozens of people in disparate time zones (Moshontz et al., 2018). In addition, traditional publishing incentives often favour quantity over quality. This means it is tempting for researchers to work in silos, working on their own studies as quickly as possible to increase their own number of publications and citations, to enhance their career.

However, as discussed earlier, this is bad for the field as a whole as it results in a multitude of underpowered and therefore non-replicable studies in the literature. This is not conducive to progress in the field, and it is a mistake to think that the limitations of small-sample individual studies and publication bias can be corrected post-hoc via meta-analysis (see Kvarven et al., 2019). The focus on quantity over quality is also a false economy for researchers interested in career-boosting metrics. By engaging in collaborative research, researchers will be producing high-value science: pre-registered, high-powered studies represent the highest quality of evidence on a topic, and so the results are inevitably published in more prestigious journals, receive greater prominence in the literature, and are cited more often. In addition, as a multi-lab study may have dozens (if not hundreds) of authors, each promoting the study through their own networks, social media channels, and at conferences and invited talks, the natural reach and visibility of the research is substantially increased. Concerns about author credit to large projects can be addressed by utilising clear contribution statements, such as the CRediT taxonomy (Holcombe, 2019), which ensures that all contributors receive appropriate recognition. Finally, as evidenced by the success of previous multi-lab studies, the practical barriers to large scale collaborations are far from insurmountable. Cloud-based document editing (e.g. Google docs; Dropbox Paper), multi-user conferencing and communication software (e.g. Zoom; Slack) and online project management software (e.g. Github; OpenProject) greatly ease the organisational burden of such initiatives and mean that barriers to multi-lab working are more often psychological than practical.

Researchers wishing to find other labs to collaborate with could utilise the StudySwap platform (https://osf.io/meetings/studyswap/), where labs can post “needs” or “haves” to facilitate sharing resources. Another option could be proposing an ASMR study to be conducted via the Psychological Science Accelerator (https://psysciacc.org/), a network of psychology labs around the world who coordinate data collection on large-scale studies. In addition, I invite ASMR researchers to sign up to a mailing list we have created for sharing ASMR research news and collaboration opportunities: https://asmr-net.us1.list-manage.com/subscribe?u=503533eadcf849b8c108a79a7&id=e0763fe0d0.

Conclusion

ASMR is a new and developing research field with enormous potential to inform our knowledge of emotion, sensory processing, and digitally-mediated therapies, as well as being a fascinating subject of study in its own right. The few studies conducted so far on ASMR have tentatively explored the phenomenon, and suggested exciting directions for research to pursue. However, in order for the field to develop and grow successfully, researchers need to be able to trust the findings in the literature and build theories and hypotheses upon ‘stable’ effects they are confident they will be able to replicate (Witte & Zenker, 2017). Such a “progressive research program” only works when the results of hypothesis tests are trustworthy – i.e., free from bias (preregistered), able to be replicated (open materials), computationally reproducible and scrutinised for errors (open data and code), accessible (preprints) and come from high-powered studies (collaboration). Whilst there are also theoretical hurdles to overcome to advance research in this area, including questions to be answered around the definition and measurement of ASMR, transparency and collaboration are also a means for addressing these in a thorough and efficient manner (Boag et al., 2021). Witte and Zenker (2017) argue that psychology must “coordinate our research away from the individualistically organized but statistically underpowered short-term efforts that have produced the [replication] crises, toward jointly managed and well-powered long-term research programs”. With the adoption of the open research practices outlined in this article, the nascent field of ASMR research has the potential to be the epitome of such a research program.

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Author Contributions

I am the sole author of the article.

Open Science Practices

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