

Multi-Analyst Projects

Please add any more you know! Thanks!

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Published projects

- [Bastiaansen et al., 2019](#) Time to get personal? The impact of researchers choices on the selection of treatment targets using the experience sampling methodology
- [Boehm et al., 2018](#) Estimating across-trial variability parameters of the Diffusion Decision Model: Expert advice and recommendations
- [Botvinik-Nezer et al., 2020](#) Variability in the analysis of a single neuroimaging dataset by many teams
- [Brezna, Nate, Eike Mark Rinke, Alexander Wuttke, et al. 2021](#). Observing Many Researchers Using the Same Data and Hypothesis Reveals a Hidden Universe of Data Analysis
- [Coretta et al. 2023](#) Multidimensional Signals and Analytic Flexibility: Estimating Degrees of Freedom in Human-Speech Analyses
- [Dutilh et al., 2019](#) The Quality of Response Time Data Inference: A Blinded, Collaborative Assessment of the Validity of Cognitive Models
- [Functional Imaging Analysis Contest 2006](#)
- [Fillard 2011](#) Quantitative evaluation of 10 tractography algorithms on a realistic diffusion MR phantom
- [Gould, E. et al. 2023](#) Same data, different analysts: variation in effect sizes due to analytical decisions in ecology and evolutionary biology. <https://doi.org/10.32942/X2GG62>
- [Hoogeveen, S., et al. \(2022\)](#). A many-analysts approach to the relation between religiosity and well-being. Religion, Brain & Behavior.
- [Huntington--Klein 2021](#) The Influence of Hidden Researcher Decisions in Applied Microeconomics [[preprint](#)]
- [Maier-Hein 2017](#) The challenge of mapping the human connectome based on diffusion tractography
- [Salganik et al., 2020](#) Measuring the predictability of life outcomes with a scientific mass collaboration

- [Sarstedt et al., 2024](#) Same model, same data, but different outcomes: Evaluating the impact of method choices in structural equation modeling.
- [Schilling et al. 2021](#) Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?
- [Schweinsberg et al. 2021](#) Same data, different conclusions: Radical dispersion in empirical results when independent analysts operationalize and test the same hypothesis.
- [Silberzahn et al., 2018](#) Many Analysts, One Data Set: Making Transparent How Variations in Analytic Choices Affect Results
- [Starns et al., 2019](#) Assessing theoretical conclusions with blinded inference to investigate a potential inference crisis
- [van Dongen et al., 2019](#) Multiple Perspectives on Inference for Two Simple Statistical Scenarios
- [Veronese et al. 2021](#) Reproducibility of findings in modern PET neuroimaging: insight from the NRM2018 grand challenge

Accidental Multi-analyst projects

All three teams used the [Natural Scenes Dataset](#) for their independent study:

- [Jain et al. 2023](#) Selectivity for food in human ventral visual cortex
- [Khosla et al. 2022](#) A highly selective response to food in human visual cortex revealed by hypothesis-free voxel decomposition
- [Pennock et al. 2022](#) Color-biased regions in the ventral visual pathway are food selective

Unpublished projects

- [Auspurg & Brüderl 2021](#) Is Social Research Really Not Better Than Alchemy? How Many-Analysts Studies Produce “A Hidden Universe of Uncertainty” by Not Following Meta-Analytical Standards. Metaarxiv
- [MAPS: Mapping the Analytical Paths of a Crowdsourced Data Analysis](#)
- [Breznau, Nate, Eike Mark Rinke, and Alexander Wuttke et al. 2018](#). How Many Replicators Does It Take to Achieve Reliability? Investigating Researcher Variability in a Crowdsourced Replication. Working Paper. SocArXiv.
- [Menkveld, Albert J et al. 2021](#). *Non-Standard Errors*. SSRN Scholarly Paper. ID 3961574. Rochester, NY: Social Science Research Network.

Ongoing projects

- Multi100: 100 results from 100 published social science papers will be re-analysed by independent analysts. More info here: <https://osf.io/7snkz/>

Qualitative crowdsourcing

- Riemann, Gerhard. 2003. “A Joint Project Against the Backdrop of a Research Tradition: An Introduction into ‘Doing Biographical Research.’” *Forum Qualitative Sozialforschung / Forum: Qualitative Social Research* 4(3). doi: [10.17169/fqs-4.3.666](https://doi.org/10.17169/fqs-4.3.666).

Methodological perspectives

- Aczel, B. et al. (2021). Science Forum: [Consensus-based guidance for conducting and reporting multi-analyst studies](https://doi.org/10.7554/eLife.72185). *eLife* 10:e72185. <https://doi.org/10.7554/eLife.72185>
- Breznau, Nate. 2021. “I Saw You in the Crowd: Credibility, Reproducibility, and Meta-Utility.” *PS: Political Science & Politics* 52(2):309–13. doi: [10.1017/S1049096520000980](https://doi.org/10.1017/S1049096520000980).
- Auspurg & Brüderl 2021. Has the Credibility of the Social Sciences Been Credibly Destroyed? Reanalyzing the “Many Analysts, One Data Set” Project <https://journals.sagepub.com/doi/full/10.1177/23780231211024421>
- Kummerfeld, E., & Jones, G. L. (2023). One data set, many analysts: Implications for practicing scientists. *Frontiers in psychology*, 14, 1094150. <https://doi.org/10.3389/fpsyg.2023.1094150>
- Silberzahn, R., Uhlmann, E. Crowdsourced research: Many hands make tight work. *Nature* 526, 189–191 (2015). <https://doi.org/10.1038/526189a>
- [Trübtschek et al., 2024](#) EEGManyPipelines: A large-scale, grassroots multi-analyst study of electroencephalography analysis practices in the wild
- [Uhlmann et al. 2019](#) Scientific Utopia III: Crowdsourcing Science.” Perspectives on *Psychological Science* 14(5):711–33. doi:10.1177/1745691619850561.
- [Nørgaard et al., 2019](#). Preprocessing, Prediction and Significance: Framework and Application to Brain Imaging. In *Proceedings for the International Conference on Medical Image Computing and Computer-Assisted Intervention 2019 Oct 13* (pp. 196-204). Springer, Cham.
- Wagenmakers, E. J., Sarafoglou, A., & Aczel, B. (2022a). [One statistical analysis must not rule them all](#). *Nature*, 605(7910), 423-425.
- Wagenmakers, E. J., Sarafoglou, A., & Aczel, B. (2022b). [Facing the Unknown Unknowns of Data Analysis](#)

Similar approaches

- Ebrahim et al. (2014). [Reanalyses of Randomized Clinical Trial Data](#).
- Low, J., Ross, J. S., Ritchie, J. D., Gross, C. P., Lehman, R., Lin, H., ... & Krumholz, H. M. (2017). [Comparison of two independent systematic reviews of trials of recombinant human bone morphogenetic protein-2 \(rhBMP-2\): the Yale Open Data Access Medtronic Project](#). *Systematic Reviews*, 6(1), 1-9.

In the Media

- The New York Times: [We gave four good pollsters the same raw data. They had four different results](#).