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**Welcome to the Saint Louis Area (SLA) ReproducibiliTea Journal Club!**

Here you can find the list of readings. This schedule is by no means an exhaustive list of relevant works, and any and all recommendations for additional readings are welcome. All readings and participation is completely voluntary. Please read as much or as little as you wish, and you’re welcome to attend meetings even if you haven’t read anything!

PDFs of all articles are available in the Zotero library and a copy of this syllabus is available on the OSF page. If you cannot access an article for whatever reason, please contact Haley at [hrcobb.iop@gmail.com](mailto:hrcobb.iop@gmail.com) or [haley.cobb@slu.edu](mailto:haley.cobb@slu.edu).

Meeting 1: An Introduction to Open Science and Reproducibility

Main Readings:

1. Maxwell, S. E., Lau, M. Y., & Howard, G. S. (2015). Is psychology suffering from a replication crisis? What does “failure to replicate” really mean? *American Psychologist, 70*, 487-498. [https://doi.org/10.1037/a0039400](https://psycnet.apa.org/doi/10.1037/a0039400)
2. Ferguson, C. J., & Heene, M. (2012). A vast graveyard of undead theories: Publication bias and psychological science’s aversion to the null. *Perspectives on Psychological Science, 7*(6), 555-561. <https://doi.org/10.1177%2F1745691612459059>

Supplementary Reading:

1. Vazire, S., & Holcombe, A. O. (2020). Where are the self-correcting mechanisms in science? <https://doi.org/10.31234/osf.io/kgqzt>

Meeting 2: Diving Deeper into Open Science

Main Readings:

1. Banks, G. C., Field, J. G., Oswald, F. L., O’Boyle, E. H., Landis, R. S., Rupp, D. E., & Rogelberg, S. G. (2019). Answers to 18 questions about open science practices. *Journal of Business and Psychology, 34*(3), 257-270. <https://doi.org/10.1007/s10869-018-9547-8>
2. Foster, E. D., & Deardorff, A. (2017). Open science framework (OSF). *Journal of the Medical Library Association, 10*5(2), 203-206. <https://dx.doi.org/10.5195%2Fjmla.2017.88>

Supplementary Reading:

1. Szollosi, A., Kellen, D., Navarro, D., Shiffrin, R., van Rooij, I., Van Zandt, T., & Donkin, C. (2019). Is preregistration worthwhile? <https://psyarxiv.com/x36pz/download?format=pdf>

Meeting 3: Diving Deeper into Reproducibility

Main Readings:

1. Nosek, B. A., Hardwicke, T. E., Moshontz, H., Allard, A., Corker, K. S., Dreber, A., … Vazire, S. (2021, February 9). Replicability, Robustness, and Reproducibility in Psychological Science. <https://doi.org/10.31234/osf.io/ksfvq>
2. Open Science Collaboration. (2015). Estimating the reproducibility of psychological science. *Science, 349*(6251).

Supplementary Reading:

1. <https://www-nature-com.ezp.slu.edu/articles/d41586-018-05256-0>

Meeting 4: Methodological Considerations

Main Readings:

1. Flake, J. K., Pek, J., & Hehman, E. (2017). Construct validation in social and personality research: Current practice and recommendations. *Social Psychological and Personality Science, 8*(4), 370-378. <https://doi.org/10.1177%2F1948550617693063>
2. Glass, D. J. (2010). A critique of the hypothesis, and a defense of the question, as a framework for experimentation. *Clinical Chemistry, 56*(7), 1080-1085. <https://doi.org/10.1373/clinchem.2010.144477>

Supplementary Reading:

1. <https://ore.exeter.ac.uk/repository/bitstream/handle/10871/40521/IOP%20R%26R%20Proof.pdf?sequence=1&isAllowed=y>

Meeting 5: Statistics, Open Data, and Model Testing

Main Readings:

1. Silberzahn, R., Uhlmann, E. L., Martin, D. P., Anselmi, P., Aust, F., Awtrey, E., ... & Nosek, B. A. (2018). Many analysts, one data set: Making transparent how variations in analytic choices affect results. *Advances in Methods and Practices in Psychological Science, 1*(3), 337-356. <https://doi.org/10.1177%2F2515245917747646>
2. Wicherts, J. M., Veldkamp, C. L., Augusteijn, H. E., Bakker, M., Van Aert, R., & Van Assen, M. A. (2016). Degrees of freedom in planning, running, analyzing, and reporting psychological studies: A checklist to avoid p-hacking. Frontiers in Psychology, 7, 1832. <https://doi.org/10.3389/fpsyg.2016.01832>

Supplementary Reading:

1. Easterbrook, S. Open code for open science? *Nature Geoscience, 7*, 779–781 (2014). <https://doi.org/10.1038/ngeo2283>
2. Busenbark, J. R., Graffin, S. D., Campbell, R. J., & Lee, E. Y. A marginal effects approach to interpreting main effects and moderation. *Organizational Research Methods.* <https://doi.org/10.1177%2F1094428120976838>
3. Guest, O., & Martin, A. E. (2020). How computational modeling can force theory building in psychological science. *Perspectives on Psychological Science,* 1–14. <https://doi.org/10.1177/1745691620970585>
4. Lakens, D., Scheel, A. M., & Isager, P. M. (2018). Equivalence testing for psychological research: A tutorial. *Advances in Methods and Practices in Psychological Science, 1*(2), 259-269. <https://doi.org/10.1177%2F2515245918770963>

Meeting 6: Ethical Considerations and Questionable Research Practices

Main Readings:

1. Flake, J. K., & Fried, E. I. (2020). Measurement schmeasurement: Questionable measurement practices and how to avoid them. *Advances in Methods and Practices in Psychological Science, 3*(4), 456-465. <https://doi.org/10.1177%2F2515245920952393>
2. Resnik, D. B., & Shamoo, A. E. (2017). Reproducibility and research integrity. *Accountability in Research, 24*(2), 116-123. <https://dx.doi.org/10.1080%2F08989621.2016.1257387>

Supplementary Reading:

1. <https://publications.iadb.org/publications/english/document/Best_Practices_for_Transparent_Reproducible_and_Ethical_Research_en_en.pdf> (Chapter 4: Ethical Research, p. 42)

Meeting 7: … Now What?

1. Kathawalla, U., Silverstein, P., & Syed, M. (2020, May 8). Easing Into Open Science: A Guide for Graduate Students and Their Advisors. <https://doi.org/10.1525/collabra.18684>
2. Vazire, S., Schiavone, S. R., & Bottesini, J. G. (2020, October 7). Credibility Beyond Replicability: Improving the Four Validities in Psychological Science. <https://doi.org/10.31234/osf.io/bu4d3>
3. Markowetz, F. (2015). Five selfish reasons to work reproducibly. *Genome Biology, 16*(1), 1-4. <https://doi.org/10.1186/s13059-015-0850-7>
4. Bergh, D. D., & Oswald, F. L. (2020). Fostering Robust, Reliable, and Replicable Research at the Journal of Management. *Journal of Management.* <https://doi.org/10.1177%2F0149206320917729>
5. “A Realistic Guide to Making Data Available Alongside Code to Improve Reproducibility.” <https://arxiv.org/pdf/2002.11626.pdf>
6. The repliCATS Project: <https://replicats.research.unimelb.edu.au/>
7. “Writing Reproducible Research Papers with R Markdown.” <https://resulumit.com/teaching/rmd_workshop.html#1>

Meetings 8 and 9: TBD

* + - 1. Once each semester, we will bring in a guest speaker. Meeting topics and dates are TBD.