Curriculum Vitae

Matthew B. Jané

Twitter · Github · Website

Bio

Current PhD student interested in quantitative methods for meta-analysis and psychological measurement. Specifically, my current research projects focus on correcting bias in effect size estimates caused by statistical artifacts. I am affiliated with the Systematic Health Action Research Program (SHARP) at the University of Connecticut where I am advised by Dr. Blair T. Johnson. I am also on the editorial board for Psychological Bulletin as a methodological reviewer.

Education

- *Present* | **Ph.D.** *Quantitative Psychology*, University of Connecticut, Storrs, Connecticut
- 2022 | **M.S.** *Behavioral Neuroscience*, University of Connecticut, Storrs, Connecticut
- 2020 | **B.S.** *Computational Neuroscience*, University of Connecticut, Storrs, Connecticut

Textbooks

- *In progress* | **Correcting Effect Sizes for Statistical Artifacts** A guide for addressing bias in effect size estimates induced by artifacts, by Matthew B. Jané and Blair T. Johnson

Software

- 2023 | **{posc}** An R Package for Probability of Outcome Superiority Curves (POSCs)
  - Github Repository: https://MatthewBJane.github.io/posc/
- 2023 | **{ThemePark}**, An R package for populat culture ggplot themes
  - Github Repository: https://MatthewBJane.github.io/theme_park/
- 2023 | **OpenSynthesis**, website cataloging publicly available meta-analytic databases
  - Github Repository: https://MatthewBJane.github.io/opensynthesis/
- 2023 | **Artifact Simulator**, A Shiny App for Visualizing Statistical Artifacts"

  - Shiny App: https://matthewbjane.shinyapps.io/effect_size_artifact_bias/

- 2023 | **Artifact Corrections for Effect Sizes**, A webpage documenting equations and code for effect size artifact corrections.
  - Link: https://www.MatthewBJane.com/ArtifactCorrections

- 2023 | **Project Analysis Code and Data**, All data and code for each one of my projects can be found here
  - Link: https://www.MatthewBJane.com/ArtifactCorrections

Publications

Publications

Harlow*, T. J., **Jané*, M. B.**, Read, H. L., & Chrobak, J. J. (2023). Memory retention following acoustic stimulation in slow-wave sleep: a meta-analytic review of replicability and measurement quality. Frontiers in Sleep, 2, 1082253.

Data Code PDF

Jané, M., Pisupati, S., Smith, K. E., Castro-Tonelli, L., Melo-Thomas, L., Schwarting, R. K., … & Read, H. L. (2022). Correlations across timing cues in natural vocalizations predict biases in judging synthetic sound burst durations. bioRxiv, 2022-05.

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