

Matthew B. Jané

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Education

- 2022–present | **Ph.D. Quantitative Psychology**, University of Connecticut
 - Research involves developing statistical methods and software for meta-analysis and evidence synthesis. Primarily focusing on correcting bias in effect size estimates induced by statistical artifacts.
- 2021–2022 | **M.S. Behavioral Neuroscience**, University of Connecticut
- 2018–2020 | **B.S. Computational Neuroscience**, University of Connecticut

Textbooks

- Jané, M. B., Xiao, Q., Yeung, S. K., Caldwell, A. R., Dunleavy, D. J., ... (2023) **Guide to Effect Sizes and Confidence Intervals**. A collaborative guide to calculating, interpreting, and reporting effect sizes and confidence intervals. *In Progress*. See preliminary version here: <https://matthewbjane.quarto.pub/effect-size-and-confidence-intervals-guide/>
- Jané, M. B., Kroc, E., Wiernik, B. M., Oswald, F. L., Johnson, B. T. (2023) **Artifact Corrections for Effect Sizes**. An open-source book for correcting bias in effect size estimates contaminated by statistical artifacts. *In Progress*. See preliminary version here: <https://matthewbjane.quarto.pub/artifact-corrections-for-effect-sizes/>

Software

- R Package **ThemePark**, Generating popular culture styled ggplot themes. github.com/MatthewBJane/theme_park. Featured on rweekly.org and flowingdata.com
- R Package **POSC** An R Package for generating Probability of Outcome Superiority Curves (POSCs). github.com/MatthewBJane/ThemePark
- Database **OpenSynthesis**, website cataloging publicly available meta-analytic databases. matthewbjane.com/opensynthesis
- Shiny App **Artifact Simulator**, A Shiny App for Visualizing Statistical Artifacts. matthewbjane.shinyapps.io/effect_size_artifact_bias
- Webpage **Artifact Corrections for Effect Sizes**, A webpage documenting equations and code for effect size artifact corrections. matthewbjane.com/ArtifactCorrections

Consulting and Workshops

- **Matthew B. Jané Consulting** statistical consulting services for clients in academia and industry research. matthewbjane.github.io/Consulting.html
- **Physalia Courses “Meta-Analysis in R” Workshop** hosted a four day workshop in meta-analysis with application to R programming language. www.physalia-courses.org/courses-workshops/metain-r/
- **R workshops for Ukraine “Meta-Analysis in R” Workshop** hosted a 2-hour workshop in meta-analysis with application to R programming language for charity. sites.google.com/view/dariia-mykhailyshyna/main/r-workshops-for-ukraine#h.qwn56mbd02im.
- **USF “Meta-Analysis in R” Workshop** hosted a 1-hour workshop in meta-analysis with application to R programming language for the University of South Florida.

Scientific Communication

- **Meta-Analysis Magic Blog** blog discussing statistical modeling and other quantitative topics in meta-analysis and measurement.
- **X/Twitter and Blue Sky** using twitter and bluesky as a means of scientific communication.

Publications

Jané, M. B., Harlow, T. J., Khu, E. C., and colleagues (2024). Extracting Pre-Post Correlations for Meta-Analyses of Repeated Measures Designs <https://matthewbjane.quarto.pub/pre-post-correlations/> *Manuscript in Preparation*.

Johnson, B. T., **Jané, M. B.**, Curley, C. (2023). Methodological Quality in Research in Health Psychology. *Under review at Sage Journal of Health Psychology*.

Champion, G., **Jané, M. B.**, Johnson, B. T., and colleagues (2023). Efficacy of Mindfulness Based Stress Reduction Interventions on Stress Reduction in the United States: A Meta-Analysis. *Data being collected*.

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*.

Jané, M. B., 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*.

Jané, M. B., Uanhoro, J., Boika, N. (2024). Predictive Validity of the Unified Tertiary Matriculation Examination on University Grades: A Living Meta-Analysis. <https://matthewbjane.com/utme-validity-meta-analysis/> *Manuscript in Preparation*.