

# Matthew B. Jané

 MatthewBJane.com

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 @MatthewBJane

 MatthewBJane

## Education

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- 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

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- 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

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- R Package **ThemePark**, Generating popular culture styled ggplot themes. [github.com/MatthewBJane/theme\\_park](https://github.com/MatthewBJane/theme_park). Featured on [rweekly.org](https://rweekly.org) and [flowingdata.com](https://flowingdata.com)
- R Package **POSC** An R Package for generating Probability of Outcome Superiority Curves (POSCs). [github.com/MatthewBJane/posc](https://github.com/MatthewBJane/posc)
- Database **OpenSynthesis**, website cataloging publicly available meta-analytic databases. [matthewbjane.com/opensynthesis](https://matthewbjane.com/opensynthesis)
- Shiny App **Artifact Simulator**, A Shiny App for Visualizing Statistical Artifacts. [matthewbjane.shinyapps.io/effect\\_size\\_artifact\\_bias](https://matthewbjane.shinyapps.io/effect_size_artifact_bias)

## Consulting and Workshops

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- **Matthew B. Jané Consulting** statistical consulting services for clients in academia and industry research. [matthewbjane.github.io/Consulting.html](https://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/](https://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](https://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

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- **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

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**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*.