

Brier S. Gallihugh, M.S.

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SUMMARY

I am an experienced social psychology researcher and doctoral candidate specializing in work regarding prejudice and discrimination. I bring +7 years of experience in quantitative data science (including experimental design) and +2 years of psychometric experience, which have resulted in +15 studies, 8 presentations across national and regional conferences, and 2 manuscripts. I am seeking to use my data science expertise to provide data-driven insights and help advance organizational goals and objectives.

TECHNICAL SKILLS

- **Language Skills** : R | SPSS | SQL | Python | Git
- **R Libraries**: Tidyverse (e.g., dplyr and ggplot2)
- **Visualization Software**: ggplot2
- **Technical Writing**: Rmarkdown | Quarto
- **Software**: Qualtrics | GitHub
- **Statistical Modeling**: SEM | Meta Analysis | Regression | Correlation | T-Test | ANOVA | Mediation & Moderation
- **Psychometrics**: Scale Construction | Scale Development | Scale Validation | EFA | CFA
- **Other**: Dynamic Computational Modeling | Data Cleaning | Research Design | A/B Testing | Data Analysis | Experimental Design

PROFESSIONAL EXPERIENCE

Behavioral Scientist, *Ohio University* | *Athens, OH*

August 2020 - Present

- Designed, cleaned, analyzed, and created visualizations for +10 quantitative research studies using R to gain insight into human behavior and attitudes as a doctoral-level graduate student using a combination of exploratory study and A/B testing designs.
- Applied regression, ANOVA, and moderation analyses to investigate human behavior and intervention effectiveness using A/B testing.
- Designed, implemented, and analyzed behavioral data across 5 studies investigating predictors of support for the BLM movement. Regression analysis suggested high multiculturalism and low assimilation beliefs positively predict support. A link to the source code repository can be found [HERE](#).
- Disseminated analytical insights drawn from statistical analysis at regional and national science conferences, resulting in 3 presentations and 3 talks at departmental colloquiums and regional psychological science conferences, in addition to one registered report.
- Designed and taught a hybrid modality R training workshop comprising 10 modules across two days to +15 graduate students aimed at teaching students how to gain statistical insights using R software.

Behavioral Scientist, *Eastern Michigan University* | *Ypsilanti, MI*

August 2017 – August 2021

- Designed, cleaned, analyzed, and created visualizations for 5 quantitative research studies using R to gain insight into human behavior and attitudes as a master's level graduate student using a combination of A/B testing and survey design methodology.
- Applied regression analyses, ANOVA, and psychometrics to investigate and draw statistics-based inferences regarding human behavior, evaluate intervention effectiveness with A/B testing, and construct and investigate the validity and reliability of a new psychological measure (see next bullet point).
- Designed, implemented, and analyzed a scale development project to create a valid measure of Christian privilege awareness among Christian samples. Initial factor and correlation analyses suggest the scale captures the intended privilege metric. A link to the source code repository can be found [HERE](#).
- Disseminated analytical insights at regional and national science conferences in the form of 2 presentations.

PUBLICATIONS AND OTHER MEDIA

Gallihugh, B. & Rios, K. (2023). Inter-ethnic ideologies as predictors of black lives and all lives matter. In Preparation

Mackey, C. D., **Gallihugh, B.**, Rios, K., & Gervais, W. M. (2023). Faithless found: Replication and extension of Gervais (2011). *The International Journal for the Psychology of Religion*. Accepted In Principle (as a registered report)

Gallihugh, B. (2023). Statistical Analyses in R: A Two Day Crash Course. Hybrid Workshop at Ohio University. Materials can be found [HERE](#).

EDUCATION

Doctor of Philosophy (Ph.D.) in Experimental Psychology
Ohio University (Athens, OH)
Expected: Spring 2025

August 2020 - Present

Master of Science (M.S.) in General Experimental Psychology
Eastern Michigan University (Ypsilanti, MI)

August 2017 - August 2021

Bachelor of Science (B.S.) in Psychology
Saginaw Valley State University (Saginaw, MI)

August 2012 - May 2017