

# Emma Butner

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## PROFESSIONAL SUMMARY

PhD Research Scholar experienced in extracting, cleaning, and modeling data from multi-source systems to support publication and presentation-ready findings. Contributes expertise in statistical analysis (LMMs, Regression), replicable R pipelines, and collaborative research to investigate educational opportunity.

## PROFESSIONAL EXPERIENCE

### Graduate Student, University of Utah

Aug 2024-PRESENT

- Perform complex statistical analyses (e.g., Linear Mixed Models, Regression) to interpret experimental data and generate findings for publication.
- Collaborate with a team of graduate students and faculty to design research protocols and analyze data for multiple concurrent projects.
- Communicate complex research findings and methodological details to PIs and collaborators.

### Lab Manager, University of Utah

Sept 2023-Aug 2024

- Design and implement R code for data extraction, cleaning, and harmonization of multi-source datasets (apps and audio recorders), ensuring reproducibility and documentation.
- Extract, clean, and validate a large-scale dataset (N=489 participants).
- Managed and trained a team of 4 research assistants on data collection policies and procedures, improving data integrity and team efficiency.

## PUBLICATIONS & PRESENTATIONS

Kilshaw, R. E., Boggins, A., Everett, O., **Butner, E.**, Leifker, F. R., & Baucom, B. R. (2024). Benchmarking Mental Health Status Using Passive Sensor Data: Protocol for a Prospective Observational Study. *JMIR Research Protocols*, 13(1), e53857.

Kilshaw, R.E., **Butner, E.**, Boggins, A., Leifker, F. R., Baucom, B. R. W. (May, 2025). Investigating the Utility of Smartphone Passive Sensor Data for Predicting Mental Health Risk in Community Dwelling Adults. Presented at the 2025 ABCT Technology and Behavior Change Special Interest Group

Frohe, T., **Butner, E.**, Kolde, S., Bhambu, P., Leemon, G., Taylor, E. M., David, A., Eikeng, I., Hu, S., Wu, Y., Zhao, M., Seo, G., Hamdy, N. W., Cohn, E. B., Clifasefi, S. L., & Collins, S. E. (In Preparation) Conventional content analysis of Housing First residents' preferred activities and service needs during the COVID-19 pandemic.

## EDUCATION & SKILLS

PhD, Cognition & Neural Science (in progress)

Salt Lake City, UT, USA

University of Utah

Expected: May 2029

*Related coursework:* Quantitative Methods I & II, A Priori Examination

**Statistical programming & analysis:** R (proficient), Python (familiar); Regression, Linear Mixed Models (LMMs), ANOVA, Data visualization (ggplot2...)

**Data management:** data extraction and cleaning, large datasets, REDCap, Qualtrics

**Research administration:** IRB protocol development and compliance

**Technical:** Microsoft Office, Google Workspace, Zotero, LaTeX, VR headsets

**Professional:** collaborative teamwork, project management, training & mentorship, scientific writing