

# Laurn Burleigh

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Baton Rouge, LA\*

\*willing to relocate



## Data Scientist

Expertise in data handling, statistical analyses, and presenting data-driven conclusions from numerous quantitative human behavior measures using Null Hypothesis, Bayesian, and Machine Learning analyses. Highly motivated with 8+ years experience in the full research lifecycle, including experimental design, data analysis, visualization and presentation. Significant experience in conducting simultaneous research projects, supervising teams of researchers for each. Programed data collection, validation, preprocessing, analysis, and visualization of time-series and cross-sectional data using Python and R. Passion for accuracy in and accessibly discussing conclusions drawn from data.

## SKILLS

**Programming** **R** for full data ecosystem and analyses (tidyverse, ggplot2, rmarkdown)  
**Python** for data manipulation and model training (numpy, pandas, sklearn)  
**Git** for version control, **LaTeX/Microsoft Office/G-Suite** for presentation, **SQL** for retrieving data from databases

**Analysis** Inferential and non-parametric statistics, A/B testing, time-series analysis, machine learning, modeling, Bayesian statistics

## EXPERIENCE

DataCamp  
Jan 2023 - May 2023  
**Course Instructor** - Contract

- Developed innovative data science course using real-world data in 4 months, improving client performance by 40%.
- Conducted weekly collaboration meetings, delivering and planning course developments on schedule
- Implemented appropriate A/B testing parametric and non-parametric analyses, data visualization, and data presentation using R

ReLearn Lab at Louisiana State University  
Jun 2020 - May 2023  
**Graduate Research Assistant**

- Led successful data science project that improved efficiency by 20% in 6 months, using R scripts, optimization, and project management.
- Developed Jupyter Book outlining use of novel transfer learning algorithm code and analysis
- Derived and executed machine and transfer learning analyses on large feature data set

Louisiana State University  
Aug 2019 - Dec 2022  
**Graduate Teaching Assistant**

- Developed and optimized R scripts, improving data analysis efficiency and accuracy by 40% in 3 months
- Established student understanding of coding and statistical analyses of human behavior data
- Created and presented research statistics course labs to 15-30 undergraduate and graduate students

CNAPs Lab at Louisiana State University  
Aug 2016 - Jul 2020  
**Graduate Research Assistant**

- Developed and optimized analysis and preprocessing scripts to improve efficiency by 20% in 4 months
- Introduced and implemented novel statistical analyses, creating operating procedures for lab use
- Created and managed co-occurring research projects of 2-8 researchers resulting in peer-reviewed journal publications and conference presentations

## EDUCATION

Louisiana State University  
2019 - 2023  
**PhD in Cognitive and Brain Science**

- Planned, developed, analyzed, and presented human research projects.
- Provided effective troubleshooting and remediation for data organization and analysis scripts.

Louisiana State University  
2016 - 2019  
**MA in Cognitive and Brain Science**

- Conducted research for thesis on emotion acquisition and generalization

University of New Orleans  
2012 - 2014  
**BSc in Psychology**