
CAROLINE LEDBETTER

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Skills

- R
- SQL
- General linear regression
- Survival analysis
- Cluster analysis
- Time Series Analysis
- Machine learning
- C++
- Python
- Functional Programming

Experience

Senior Professional Research Assistant

May 2017 - Present

Center for Innovative Design and Analysis, Dept of Biostatistics, University of Colorado

- Developed a predictive model for food source attribution for enteric disease outbreaks and deployed as a shiny app.
- Conducted a multi-year, multi-site step wedge study of the effectiveness of a clinical decision support tool to improve opioid.
- Performed a unique pilot analysis to develop evidence-based oxygenation standards in trauma patients using time dependent covariates in a survival.
- Developed an R package to automate and standardize project workflows.
- Served as the advisor for student capstone projects and independent study papers.
- Taught R courses and seminars on R, SAS, reproducibility, and version control.

Research Assistant

May 2015- May 2017

JFK Partners, University of Colorado at Denver, Aurora, CO

- Worked with collaborators to develop clear research questions and design statistical analyses.
- Used SQL, SAS, and R to clean and analyze data from a large relational database.
- Methods included linear regression, mixed models, and sensitivity and specificity.

Research Assistant,

Aug 2015- Dec 2016

Colorado School of Public Health, Aurora, CO

- Literature review and metanalysis for burden of foodborne illness.

Education

MPH, Biostatistics and Epidemiology, 2017

Colorado School of Public Health

BA, Biochemistry, 2015

University of Colorado at Boulder