


# BYRON C. JAEGER

I am an Assistant Professor of Biostatistics and work in the School of Public Health at the University of Alabama at Birmingham.

My research focuses on blood pressure, cardiovascular disease, and machine learning.


## EDUCATION

2017  
|  
2012

- **PhD, Biostatistics**  
Gilling's School of Global Public Health  Chapel Hill, North Carolina
  - Thesis: [Extending R-squared to the Generalized Linear Mixed Model](#)
  - Honors: Recipient of ENAR Distinguished Student Paper Award

## PROFESSIONAL EXPERIENCE

Present  
|  
2017

- **Assistant Professor of Biostatistics**  
University of Alabama at Birmingham  Birmingham, Alabama
  - Investigating mechanisms of cardiovascular disease and hypertension
  - developing machine learning algorithms to identify who may benefit from initiating antihypertensive medications

## TEACHING EXPERIENCE

Present  
|  
2017

- **BST 680: Introduction to R**  
University of Alabama at Birmingham
  - Students develop core competencies in data analysis (import, clean, transform, visualize, and tabulate) using R.
  - Course structure promotes interactive lectures and group exercises.
  - Final exam: a comprehensive research project using R `markdown`.

Present  
|  
2020

- **BST 765: Advanced computational methods**  
University of Alabama at Birmingham
  - Introduction to computational techniques such as simulation studies, bootstrapping, cross-validation, permutations, and Gibbs sampling.
  - Co-instructor with Dr. Charles Katholi

## SELECTED R PACKAGES

2021  
|  
2020

- **table.glue**  
Make and Apply Customized Rounding Specifications for Tables
  - [GitHub Repository](#)
  - Total downloads: 1,959



## CONTACT

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[GitHub](#) 

[Twitter](#) 

## SKILLS

### Statistical analysis:

Linear mixed models  
Survival analysis

### Statistical / Machine learning:

Clinical risk prediction  
Missing data

### Statistical Programming:

R  
C++

## STATS

Citations: 610  
Papers: 35 (9 first author)  
CRAN downloads: 42,586  
Active grants: 8

*This resume was made with the  
R package [pagedown](#).*

2021  
|  
2018

- **obliqueRSF**  
Oblique random survival forest (ORSFs)
  - [GitHub Repository](#)
  - Total downloads: 12,576

2021  
|  
2016

- **r2glmm**  
Compute model and semi-partial R-squared for mixed models
  - [GitHub Repository](#)
  - Total downloads: 28,051
  - Total citations: 137



## SELECTED PUBLICATIONS

2020

- **[Trends in blood pressure control among US adults with hypertension, 1999-2000 to 2017-2018](#)**  
P Muntner, ST Hardy, LJ Fine, **BC Jaeger**, ...  
*JAMA*, 324 (12), 1190-1200
  - Citations: 40
  - DOI: 10.1001/jama.2020.14545

[Impact metrics](#) (In the top 5% of all research outputs scored by Altmetric)

2019

- **[Oblique Random Survival Forests](#)**  
**BC Jaeger**, DL Long, DM Long, M Sims, JM Szychowski, ...  
*Annals of Applied Statistics*, 3 (2019), 1847-1883
  - Citations: 2
  - DOI: 10.1214/19-AOAS1261

2019

- **[An R-squared Statistic for Covariance Model Selection in the Linear Mixed Model](#)**  
**BC Jaeger**, LJ Edwards, MJ Gurka  
*Journal of Applied Statistics*, 46 (1), 164-184
  - Citations: 2
  - DOI: 10.1080/02664763.2018.1466869

ENAR Distinguished Student Paper Award

2017

- **[An R-squared Statistic for Fixed Effects in the Generalized Linear Mixed Model](#)**  
**BC Jaeger**, LJ Edwards, K Das, & PK Sen  
*Journal of Applied Statistics*, 44 (6), 1086-1105
  - Citations: 161
  - DOI: 10.1080/02664763.2016.1193725