# 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

- Ochapel 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

- Pairmingham, 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.



# SELECTED R PACKAGES

2020

### table.glue

Make and Apply Customized Rounding Specifications for Tables

- GitHub Repository
- Total downloads: 462

2020 2018

#### obliqueRSF

Oblique random survival forest (ORSFs)

- GitHub Repository
- · Total downloads: 10,153



#### 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: 467 First author papers: 9 CRAN downloads: 35.111 Active grants: 7

This resume was made with the R package pagedown. 2020 2016

#### r2glmm

Compute model and semi-partial R-squared for mixed models

- · GitHub Repository
- · Total downloads: 24,496
- · Total citations: 112



# ■ 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: 4
- · DOI: 10.1001/jama.2020.14545

2019

#### **Oblique Random Survival Forests**

BC Jaeger, DL Long, DM Long, M Sims, JM Szychowski, ... Annals of Applied Statistics, 3 (2019), 1847-1883

- · Citations: 1
- · 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

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: 141
- · DOI: 10.1080/02664763.2016.1193725

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

**ENAR Distinguished Student** Paper Award