


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`.

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](#)



CONTACT

bcjaeger@uab.edu 

[GitHub](#) 

[Twitter](#) 

SKILLS

Statistical analysis:

Linear mixed models
Survival analysis

Statistical / Machine learning:

Clinical risk prediction
Missing data

Statistical Programming:

R
C++

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

STATS

Citations: 467
First author papers: 9
CRAN downloads: 35,111
Active grants: 7

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

- 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

ENAR Distinguished Student
Paper Award



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
- 2020
|
2016 • **r2glmm**
 Compute model and semi-partial R-squared for mixed models
 • [GitHub Repository](#)
 • Total downloads: 24,496
 • Total citations: 112