

JESS GRAVES

SENIOR STATISTICIAN

CONTACT

 713-416-3206
 jessica.lynn.graves@gmail.com
 jesslgraves.github.io
 Houston, TX

SKILLS

Statistical programming (R, Python, SAS)
Study design and power analysis
Longitudinal data analysis
Regulatory & academic report writing

EDUCATION

MS, Biostatistics
MS, Epidemiology

University of Pittsburgh


2016-2020
Graduate School of Public Health

BS, Anthropology

University of Texas, Austin

2007-2010
Phi Beta Kappa honor society member

SOFTWARE

 [RAR: R Package for Rest Activity Rhythm analysis](#)

ABOUT ME

Senior statistician with expertise in advanced statistical analysis, study design and report writing, driven to be a statistical leader on clinical research programs that contribute to the research and development of new treatments.

WORK EXPERIENCE

Senior Statistician

Cellular Longevity, Inc. DBA Loyal 2021-Present

- Provide statistical leadership and support for clinical and preclinical trials, including power analysis, protocol development, advanced data analysis and regulatory and academic writing.
- Write the analysis plan for and power the first-ever longevity clinical trial.
- Statistical representation in cross-functional teams.
- Identify and build strategic research collaborations.
- Analyze and wrangle big datasets to predict aging-related diseases.
- Roles: Data Scientist to Snr. Data Scientist in 2022 to Snr. Statistician in 2024.

Statistician

University of Pittsburgh Medical Center 2020-2021

- Analyzed and published on how features of sleep and substance use effect health in cross-sectional and longitudinal cohorts.
- Developed algorithms to extract physiological features of sleep.
- Statistical consulting for UPMC Internal Medicine residents.

Graduate Student & Researcher in Biostatistics and Epidemiology

Graduate School of Public Health, University of Pittsburgh 2018-2020

- Developed and published on analytic methods used to estimate circadian rhythms and their relationship to health outcomes.
- Co-developed standard operating procedures for Study of Muscle, Mobility and Aging (SOMMA), an NIH-funded longitudinal study of aging.

Staff Biostatistician

Center for Occupational Biostatistics and Epidemiology 2017-2018

- Modeled and published findings on occupational hazards and their association with mortality and disease risk.
- Reported to clients, community stakeholders, and publication.

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PUBLICATIONS

Aging & Longevity

Peloquin M, Tovar A, **Graves JL**, ... (2024). Saturated fatty acid concentrations are predictive of insulin sensitivity and beta cell compensation in dogs. *Scientific Reports* 14 (1), 12639

McKenzie B, Peloquin M, Tovar A, **Graves JL**, ... (2024). Feeding dogs a high-fat diet induces metabolic changes similar to natural aging, including dyslipidemia, hyperinsulinemia, and peripheral insulin resistance. *American Journal of Veterinary Research* 85 (6).

Graves JL, ... (2023). Body weight, gonadectomy, and other risk factors for diagnosis of osteoarthritis in companion dogs. *Frontiers in Veterinary Science* 10 (1 275964).

Chen FL, ..., **Graves JL**, ... (2022). Evaluating instruments for assessing healthspan: a multi-center cross-sectional study on health-related quality of life (HRQL) and frailty in the companion dog. *GeroScience*, 1-20.

Sleep, Circadian Rhythms & Physiological Measures

Hasler, BP, **Graves JL**, ... (2022). Self-reported sleep and circadian characteristics predict alcohol and cannabis use: A longitudinal analysis of the National Consortium on Alcohol and Neurodevelopment in Adolescence Study. *Alcoholism: clinical and experimental research* 46.5 (2022): 848-860.

Graves JL, ... (2021). Profiles of Accelerometry-Derived Physical Activity are Related to Perceived Physical Fatigability in Older Adults. *Sensors*, 21 (5).

Wallace ML, ..., **Graves JL**, ... (2021). Physiological sleep measures predict time to 15-year mortality in community adults: Application of a novel machine learning framework. *Journal of Sleep Research*, 00:e13386.


Kaufman EA, **Graves JL**, ... (2021). Associations between physiological and self-reported indices of emotion dysregulation across varying levels of alcohol use among individuals with and without borderline personality disorder. *Biological Psychology* 160, 108044

Krafty RT, ..., **Graves JL**, ... (2019). Measuring variability in rest-activity rhythms from actigraphy with application to characterizing symptoms of depression. *Statistics in biosciences* 11, 314-333

Occupational Health

Marsh GM..., **Graves JL**, ... (2019). Mortality among United States aerospace materials manufacturing workers. *American Journal of Industrial Medicine* 62 (3), 192-204

Marsh GM..., **Graves JL**, ... (2017). Mortality among hardmetal production workers. *Journal of occupational and environmental medicine* 59 (12), e342-e364

 [See Google Scholar profile for more](#)