Stanford

Eric Leslie

Postdoctoral Scholar, Cardiovascular Medicine

Bio

BIO

My career goals are to become an independent investigator to advance practical applications of exercise training for patients and athletes using interdisciplinary research approaches.

My research background throughout my education and postdoctoral training spans several areas in the exercise and biomedical sciences with both sport performance and clinical focuses. This includes study of elite and non-elite running performance, the effects of exercise during pregnancy on offspring development and pulmonary hypertension risk, the effects of long-term physical activity on the fitness and body composition of older adults, and genetic factors that contribute to asthma development and exacerbations. The results of these projects have been disseminated in journal publications. I also have education and training in bioinformatics, machine and deep learning, and wet lab techniques for follow-up experiments and analyses pertinent to exercise science research.

Currently, as a postdoctoral scholar in Dr. Matthew Wheeler's Lab I am analyzing omics and accelerometry data from the Molecular Transducers of Physical Activity Consortium (MoTrPAC) and the Wu Tsai Human Performance Alliance ELITE and molecular athlete projects.

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Physiological Society (2020 - present)
- Member, American College of Sports Medicine (2018 - present)

PROFESSIONAL EDUCATION

- Fellow, San Diego Supercomputer Center at the University of California San Diego , Machine learning, deep learning, and high-performance computing (2025)
- Postdoctoral Fellowship, University of California San Diego , Bioinformatics of genetic factors and viral infection related to asthma development (2024)
- PhD, University of New Mexico , Physical Activity, Health and Exercise Sciences (2022)
- MS, San Diego State University , Exercise Physiology (2018)
- BS, Northern Arizona University , Exercise Science (2015)

STANFORD ADVISORS

- Matthew Wheeler, Postdoctoral Faculty Sponsor

LINKS

- Wheeler Lab: https://med.stanford.edu/mattlab.html

- MoTrPAC Data Hub: https://motrpac-data.org/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Translational research of exercise responses to improve human health and sport performance. Current research emphasizes multi-omic and accelerometry data analysis to characterize the molecular and applied responses to exercise training as well as the biological profiles of elite athletes.