DANTE GOSS II

COURSEWORK

- Machine Learning & Data Mining
- Generalized Linear Models
- Statistical Modeling
- Computation & Modeling in Biomedical Engineering
- R in Psychology
- Applied Causal Inference
- Quantitative Methods I & II
- Advanced Exercise Physiology
- Impact Biomechanics
- Python for Everyone Coursera Course

SKILLS

- Programming: (R, MATLAB, Python, Excel, SQL)
- Data Collection: (Motion capture, wearable IMU's, metabolic expenditure, load sensing insoles)
- Research: (Descriptive & inferential statistics, machine learning, research methods, study design, project management)
- Communication: (Oral presentations, written research)

PROFILE

Kinesiology/Sports Medicine PhD Student at the University of Virginia working in the Exercise and Sports Injury Lab.

Research interests include data driven health insights for chronic musculoskeletal diseases and aging.

WORK EXPERIENCE

Graduate Research Assistant

University of Virginia   *2021 - Present*

- Wrote and secured a research grant for an original research project.
- Conducted a systematic review of step-rate based gait retraining in runners, authored a manuscript, and presented results at multiple national conferences.
- Used MATLAB to create multiple automatic data processing scripts for accelerometer data collected across multiple research sites.

Data Analyst & Research Associate

Legacy Communication & Research   *2019 - Present*

- Designed comprehensive surveys to gauge perceptions of DEI initiatives for a national consulting client with over 50 member organizations.
- Managed the entire data lifecycle including data storage, cleaning, and analysis using Excel and R.
- Generated insights and created data visualizations for use in a series of reports used at different levels of the client organization.

PROJECTS

Cadence Analysis

- Collected data on myself walking at different cadences with a metronome.
- Processed and analyzed the data using R, finding meaning at key time points of the signal.
- Found that my cadence played a role in my force output and that I have a lingering asymmetry from a meniscus injury.

EDUCATION

Doctor of Philosophy – Kinesiology & Exercise Science   *May 2026*
University of Virginia

Bachelor of Science in Kinesiology & Exercise Science   *May 2021*
Indiana University – Purdue University Indianapolis