

DANTE GOSS II

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PROFILE

Kinesiology/Sports Medicine PhD Student at the University of Virginia working in the Exercise and Sports Injury Lab.
Research interests include wearable sensors, gait biomarkers, chronic musculoskeletal diseases, and aging.

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)

RELEVANT COURSES

- 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

WORK EXPERIENCE

Graduate Research Assistant

University of Virginia 2021 - Present

- Successfully wrote and secured a research grant for an innovative project aimed at measuring energy expenditure and joint loading in older adults compared to younger adults while walking (Data collection ongoing).
- Conducted a systematic review of step-rate based gait retraining in runners.
 - Presented the research findings at multiple national conferences & authored a manuscript detailing results.
- Performed human subject testing in multiple studies using optical motion capture, indirect calorimetry, inertial measurement units, force plates, dynamometers and ultrasound.
 - Oversaw subject scheduling & maintained records.
- 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 company culture, diversity, equity, and inclusion (DEI) initiatives, and workshops for a large consulting client.
- 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.

EDUCATION

Doctor of Philosophy – Kinesiology & Exercise Science

University of Virginia

Expected Graduation May 2026

Bachelor of Science in Kinesiology & Exercise Science

Indiana University – Purdue University Indianapolis

May 2021