

Dante Goss

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SUMMARY

Sports Medicine PhD candidate experienced in human subjects research and skilled in programming, statistics, and biomechanics. Seeking a role where I can apply my creativity, research expertise, and innovative approach to solving health and fitness challenges.

EXPERIENCE

Graduate Research Assistant

University of Virginia

August 2021 - Present

- Designed and developed a research project testing biomechanical and metabolic changes associated with gait retraining, conducting over 60 data collections using 3D motion capture and metabolic carts.
- Conducted nearly 50 data collections using ultrasound, force plates, inertial measurement units, and field-based exercises to analyze the effects of a chronic ankle instability intervention.
- Coded two web applications to automate signal processing, data cleaning, and feature engineering for motion capture and wearable sensor data, reducing time burden and removing selection bias.
- Performed statistical analysis and generated data visualizations for biomechanical and wearable sensor data from multiple research sites using R and Python, contributing to multiple publications and national presentations.
- Advised two master-level and 5 undergraduate students through completing research capstone projects, including developing research questions, setting objectives, managing deadlines, teaching data collection methods, and revising presentations.

Data Analyst & Research Associate

Legacy Communication & Research

May 2019 - Present

- Designed and deployed several comprehensive surveys to assess perceptions of DEI initiatives for a national consulting client with over 50 member organizations.
- Managed the data for over 1000 survey respondents including data storage, cleaning, and analysis using Excel and R.
- Synthesized data into actionable insights and created data visualizations for use in reports used at different levels of the client organizations.

EDUCATION

Doctor of Philosophy - PhD, Kinesiology and Exercise Science

University of Virginia - 2026

Bachelor of Science - BS, Kinesiology and Exercise Science

Indiana University-Purdue University Indianapolis - 2021

COURSEWORK

Machine Learning & Data Mining, Statistical Modeling, Applied Causal Inference, Computation & Modeling in Biomedical Engineering, Advanced Exercise Physiology, Impact Mechanics

SKILLS

Programming: Python, R, MATLAB, SQL, Excel

Research: Study Design, Project Management, Statistical Modeling, Data Visualization, Machine Learning

Communication: Manuscript Writing, Oral Presentations, Poster Presentations, Written Reports, PowerPoint
