

Zachary Siegfried

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Location: Washington D.C.

EDUCATION

George Washington University Milken Institute of Public Health, 2021 - 2023

Expected: Master of Public Health in Biostatistics

- Graduate Teaching Assistant: PUBH 6853 - Data management and analysis in SAS

University of Virginia, 2017 – 2021

BS in Chemistry with a specialization in Biochemistry, Minor: Bioethics

- Men's Rugby Team (Vice Captain), Alpha Sigma Phi (Events Chair), Biology Society

EXPERIENCE

Data Science Intern at Cellular Longevity, Inc., dba Loyal, Remote, Jul 2022 – Feb 2023

- Analyzed longitudinal clinical trial data using R, ran statistical comparison tests and data visualization on biomarker data. Used linear models to identify biomarker-drug associations and assess assay performance.
- Designed data pipelines in python and Linux to more efficiently and accurately analyze timepoint data. Automated clinical trial data analysis pipeline. Collaborated to help build companywide NGS bioinformatics data infrastructure using Nextflow on Git Hub.
- Complied the statistical documentation for FDA submissions. Contributed to scientific publication process writing and reviewing statistical methodology.
- Learned about the inner workings of a biotech startup company including how different data types are managed, how code is built cooperatively, and how engineering teams collaborate with clinical R&D teams on large-scale drug development research projects.

Bioinformatics Analyst at MindSpec, McLean, VA, May 2021 – Jun 2022

- Performed meta-analysis on the relation of autism spectrum disorder and motor coordination deficits in collaboration with Columbia University. Study was aimed at expanding diagnosis criteria in children to include quantitative measures.
- Handled large amounts of numerical, categorical and genomic data in Excel. Assisted in building statistical methodology to analyze data trends.

Research Assistant at the University of Virginia, Charlottesville, VA, Aug 2019 – May 2021

- Carried out health policy research into the financial reimbursement of telemedicine providers by insurance companies. Performed financial forecast modeling using new healthcare policy and compiled data to publish two research papers.

Bioethics Intern at the UVA Health System, Charlottesville, VA, Jan – May 2020

- Worked with the Director of Medical Center Procurement to assist the UVA Health System in ethical PPE acquisition strategies during the early stages of the coronavirus pandemic.

PROGRAMMING LANGUAGES

Python, R, SAS, SQL, Git, AWS, Linux Shell, APIs

RESEARCH PUBLICATIONS

Pamela B. DeGuzman PhD, RN | Zack Siegfried B.S. | Alec Scicchitano B.A. | Neha Jain | Setareh Abooali | (2021) Improving Equitable Access to Care Via Telemedicine in Rural Public Libraries. *Public Health Nursing*.