CARTER ALLEN, PHD

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PROFILE

I am a **Biostatistician** specializing in the development and application of computational methods for **drug discovery**. I have extensive experience analyzing spatial and single-cell omics, flow cytometry, and high throughput screening data. My guiding motivation is the desire to use statistics and bioinformatics to improve healthcare.

EXPERIENCE

Research Scientist — Statistician, *Eli Lilly and Company* — 2022 - Present

- Lead the design and analysis of **spatial transcriptomics** experiments to identify drug targets for neurodegenerative and chronic pain conditions

- Develop computation methods and software for **automating bottlenecks** in drug discovery

- Mentor and manage direct reports, lead **cross therapeutic-area collaborations**, and orchestrate project deliverables

Graduate Research Associate, *The Ohio State University* — 2019-2022

- Developed novel statistical and bioinformatic frameworks for spatial transcriptomics

- Served as **lead statistician** for investigation of novel therapeutic agents for COVID-19

Graduate Research Assistant, *Medical University of S.C.* — 2017-2019

- Developed Bayesian models for clustering and imputation of longitudinal infant development trajectories

EDUCATION

The Ohio State University, *Columbus, OH* — **PhD in Bioinformatics** (2022)

University of South Carolina, *Columbia, SC* — **BS in Statistics** (2017)

SKILLS

Data Science | Bayesian Modeling | Deep Learning | Design of Experiments | Statistical Analysis | Statistical Computation | Single-Cell Data Analysis | Spatial Statistics | R | Python | Software Development