

# Michael D. Anderson

DATA SCIENTIST

Louisville, Kentucky

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## Education

### University of Kentucky

Lexington, KY

GRADUATE CERTIFICATE IN BIostatISTICS, POST-GRADUATE STUDIES IN PUBLIC HEALTH

August 2018 - May 2020

- Recipient of full-time graduate assistantship, including full tuition scholarship
- Primary course of study focused on application of statistical methods to public health research, including coursework in data mining, longitudinal data analysis, generalized linear models, nonparametric statistics, causal inference, epidemiology, and statistical genetics
- Performed independent research into the development of novel nonparametric regression techniques

### University of Kentucky

Lexington, KY

MASTER OF SCIENCE IN STATISTICS

August 2016 - May 2018

- Recipient of full-time graduate assistantship, including full tuition scholarship
- Primary course of study focused on advanced statistical theory and application, including coursework in machine learning, computational statistics, advanced data analysis, clinical trials, survival analysis, and experimental design

### University of Kentucky

Lexington, KY

BACHELOR OF SCIENCE IN MATHEMATICAL ECONOMICS

August 2012 - May 2016

- Summa Cum Laude, Departmental Honors
- Recipient of Academic Excellence Scholarship and Alumni Collegiate Plate Scholarship
- Officer of UK Economics Society, founding member of UK Quiz Bowl team
- Primary course of study focused on quantitative methods in economics, including coursework in game theory, econometrics, and computer programming, with graduate-level coursework in probability, statistical inference, quantitative economics, and symbolic logic

## Experience

### Strategic Marketing

Louisville, KY

DATA ANALYST

December 2021 - Present

- Managed business database and statistical analytics for a data-driven, automotive marketing firm with hundreds of clients around the country
- Integrated client data and external marketing data with business database, while maintaining data integrity and security, as well as consumer privacy and confidentiality
- Performed database analytics for clients, to help them better understand their own data, and created performance analytics for multi-channel marketing campaigns, including direct mail, email, and digital and social media marketing, to demonstrate campaign efficacy

### JPMorgan Chase

Louisville, KY

FINANCIAL DATA TRANSCRIBER

January 2021 - December 2021

- Handled highly confidential taxpayer data at a high-security IRS processing facility, managed by JPMorgan Chase
- Duties included: extracting, processing, and balancing taxpayer data in the form of tax returns and payments; ensuring quick and accurate data entry into IRS database; training and assisting other staff in proper data processing and security protocols

### University of Kentucky

Lexington, KY

GRADUATE ASSISTANT - DEPARTMENTS OF STATISTICS AND BIostatISTICS

August 2016 - May 2020

- Performed research duties for healthcare researchers in the University's Center for Clinical and Translational Sciences (CCTS), and professors in the Department of Health Management and Policy
- Led multiple statistical programming workshops in R and SAS through the University's Quantitative Initiative for Policy and Social Research (QIPSR) and the Biostatistics, Epidemiology, and Research Design (BERD) core of the CCTS, including workshops on introductory programming, data analysis, data visualization, and survival analysis
- Taught my own section of STA 296 (undergraduate course in statistical methods) as the primary instructor, which included preparing lecture material, assignments, and exams for a class of over 30 students, as well as providing in-person and online tutoring hours for all STA 296 students (over 750 in total each semester)
- Assisted primary instructors on undergraduate courses in statistics and biostatistics, as well as graduate courses in bayesian data analysis, survival analysis, generalized linear models, and public health biostatistics

## Skills

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### Programming

- R, SQL, Python, C, HTML & CSS, Java, Javascript

### Software

- RStudio & R Markdown, SAS, Stata, SPSS, Git & GitHub, Jupyter Notebook, Microsoft Office & Excel, LaTeX, Tableau, Amazon Web Services

Portfolio with programming and scientific writing samples available on my GitHub, linked above