

Cora Allen-Savietta

Data Scientist & Software Developer

PhD-level data scientist with 8 years of experience leading statistical projects. Skilled in causal inference, machine learning, and statistical software development. I build useful statistical tools to answer real-world questions.

Experience

2018-03 - present	<div>Statistician and Developer</div> <div>Department of Statistics, University of Wisconsin</div> <ul style="list-style-type: none">Building efficient, extendable software in Julia to reconstruct ancient evolutionary history from modern DNA. Combines efficient algorithms, novel search strategies, and efficient likelihood comparison
2018-02 - 2019-03	<div>Data Science Lead</div> <div>Department of Medicine, University of Wisconsin</div> <ul style="list-style-type: none">Delivered recommendations for improving program graduation rates using multivariate generalized linear mixed effects model analysis in R.
2016-05 - 2018-12	<div>Lead Data Analyst</div> <div>Department of Epidemiology, University of Wisconsin</div> <ul style="list-style-type: none">Identified geographic disparities in cancer incidence and survival in a study of 26,000 women using generalized multivariate additive spatial models, missing data imputation, and smoothing in R.
2016-12 - 2017-12	<div>Data Science Lead</div> <div>Teaching Assistants Association</div> <ul style="list-style-type: none">Managed and led a team to develop a Shiny web application for large-scale data management, mobile data entry, and statistical summaries
2012-06 - 2015-08	<div>Epidemiology Researcher</div> <div>Harvard Medical School & Brigham and Women’s Hospital</div> <ul style="list-style-type: none">Extracted data-driven insights about prescription drug safety from large nationwide Medicare data using causal inferencePresented results to stakeholders using TableauLed a team of 5 researchers to complete clinical trial data collection and analysis with R

Teaching and Mentoring Experience

2018-09 - 2018-12	<div>Computational Tools for Data Analytics</div> <ul style="list-style-type: none">Taught 42 graduate students Bash scripting, Python, & Julia as a teaching assistant.Mentored students individually and in small groups through pair programming and GitHub code review.
2016-01 - 2018-05	<div>Undergraduate & Graduate Student Mentoring</div> <ul style="list-style-type: none">Mentored 6 Statistics undergraduates in preparing honors thesis projects.Tutored 7 undergraduates and graduate students in Statistics courses.
2015-09 - 2015-12	<div>Introduction to Biostatistics</div> <ul style="list-style-type: none">Taught 40 Masters of Public Health students research design, statistical inference, and regression as a teaching assistant.

Personal Info

Phone	608-239-4068
E-mail	allencoleman@wisc.edu
GitHub	github.com/coraallensavietta

Skills

Julia	<div><div></div><div></div><div></div><div></div><div></div></div>
R	<div><div></div><div></div><div></div><div></div><div></div></div>
Python	<div><div></div><div></div><div></div><div></div><div></div></div>
Git	<div><div></div><div></div><div></div><div></div><div></div></div>
SQL	<div><div></div><div></div><div></div><div></div><div></div></div>
Bash	<div><div></div><div></div><div></div><div></div><div></div></div>
Tableau	<div><div></div><div></div><div></div><div></div><div></div></div>

Education

PhD Statistics	University of Wisconsin
expected December 2020	
BA Psychology	Oberlin College
high honors	

Awards

2020-08	Institute for Foundations of Data Science Research Support
2017-07	National Institutes of Health Data Science Traineeship
2015-09	National Institutes of Health Biostatistics Traineeship