Cora Allen-Savietta

Data Scientist & Software Developer

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

Professional Experience

2018-03 - present
Statistician and Developer
Department of Statistics, University of Wisconsin
- 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
Data Science Lead
Department of Medicine, University of Wisconsin
- Delivered recommendations for improving program graduation rates using multivariate generalized linear mixed effects model analysis in **R**.

2016-05 - 2018-12
Lead Data Analyst
Department of Epidemiology, University of Wisconsin
- 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
Data Science Lead
Teaching Assistants Association
- 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
Epidemiology Researcher
Harvard Medical School & Brigham and Women's Hospital
- Extracted data-driven insights about prescription drug safety from large nationwide Medicare data using **causal inference**
- Presented results to stakeholders using **Tableau**
- Led a team of 5 researchers to complete clinical trial data collection and analysis with **R**

Teaching and Mentoring Experience

2018-09 - 2018-12
Computational Tools for Data Analytics
- 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
Undergraduate & Graduate Student Mentoring
- Mentored 6 Statistics undergraduates in preparing honors thesis projects.
- Tutored 7 undergraduates and graduate students in Statistics courses.

2015-09 - 2015-12
Introduction to Biostatistics
- 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
●●●●●

R
●●●●○

Git
●●●●○

Bash
●●●○○

Python
●●●○○

Tableau
●●●●○

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