**Greg Simon Ph.D.**

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**Professional Summary**

Expertise in the practice and theory of state-of-the-art data analysis, modern statistics, and machine learning. Demonstrated projects utilizing these skill to drive business value in pricing, revenue forecasting, and risk management. Additional projects in dashboarding, image recognition, and natural language processing. Team-centered, goal-oriented, and driven to succeed.

**Project portfolio available at**: [https://gregorygsimon.github.io](https://gregorygsimon.github.io/)

**Education**

**Ph.D. Mathematics**, 2016, University of Michigan

**M.S. Data Analytics**, 2021, Western Governors University

**B.A. Mathematics**, 2010, University of California, Santa Cruz

* *cum laude* and *highest honors in the major* (mathematics)

**Technical Skills**

**Languages:** Python, R, SQL, Spark, Mathematica, Julia

**Other:** AWS Cloud, Git, Docker, Tableau, Google Apps Script, Shell scripting

**Certifications:** AWS Certification - Machine Learning Specialty (expires 2023, ID#RX11FD2CEB4E1WKF)

**Employment Experience**

**Data Scientist – Bayer Crop Science** via **Signature Consulting** [2020– Present]

* Completed projects answering business questions in product pricing, revenue forecasting, and risk management primarily using R and Python
* Team expert in AWS Cloud Services – developed team data catalog, wrote Lambda functions and structured S3 storage back-end for customer-facing shiny app
* Developed framework for high-dimensional copula correlation / risk modeling used for yield modeling and financial simulations

**Course Faculty in Statistics - *Western Governors University*** [2017– 2020]

* Teaching applied statistics – outstanding student evaluations available upon request
* Gathering and analyzing student data using Python for approx. 1500 active students in our course
* Led machine learning projects aligning coursework with positive student outcomes
* Developed dashboard to wrangle data and visualize student progress

**Graduate Student Instructor**[2011-2016], **Lecturer**[2016-2017] ***University of Michigan***

* Primary instructor for calculus series, differential equations and multi-variable calculus. Course coordinator for Accelerated Precalculus (2 terms), Calculus II

**Projects and Workshops**

**Image recognition 6-week project with TrainX** 7/2019 – 9/2019

* Co-lead five student-practitioners developing image recognition model in AWS to predict make and models from images of car from street-facing webcams, in connection with Detroit PD
* Contact: Aubrey Agee, TrainX co-founder, [aubrey@trainx.ai](mailto:aubrey@trainx.ai)

*updated: Jan 17, 2021*