**Greg Simon Ph.D.**

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**Professional Summary**

Expertise in the practice and theory of state-of-the-art machine learning, modern statistics and mathematics, and quantitative modeling. Demonstrated projects utilizing these skill to drive business value in pricing, revenue forecasting, risk modeling, and product development. Team-centered, goal-oriented, and driven to succeed.

**Non-proprietary 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 (some)

**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]

* Developed model for high-dimensional correlation / risk modeling via copula theory used for financial simulations in new business models
* Developed customer utility and decision model used for correcting bias in revenue and risk forecasts
* Team expert in AWS Cloud Services – developed team data catalog, developed Lambda functionality and structured data storage back-end for customer-facing apps
* Completed additional projects using machine learning models to answer business questions in product pricing, revenue forecasting, and risk management primarily using R and Python

**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
* Developed machine learning model aligning coursework with positive student outcomes (xgboost)
* 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.

**Projects and Workshops**

**Faculty for 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: April 5, 2022*