

# 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 that drive team success in data wrangling, automation, dashboarding, forecasting, machine learning, image recognition, and natural language processing. Team-centered, goal-oriented, and driven to succeed.

**Project portfolio available at:** <https://gregorygsimon.github.io>

## Education

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

**M.S. Data Analytics**, expected 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 [pandas, scikit-learn, matplotlib, keras, pytorch, etc.], SQL, Spark, R, Julia (some)

**Other:** AWS Cloud, Excel, Google Apps Script, Bash/Linux, Git, Docker, Tableau

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

## Employment Experience

**Western Governors University** *Course Faculty* [2017 – Present]

- Teaching applied statistics – outstanding student evaluations available
- Gathering, cleaning, and analyzing data from approx. 1500 active students at any given time
- Led machine learning project aligning course practice problems with positive student outcomes
- Responsible for departments data visualization in Python
- Developed dashboard to automate collection and visualization of student progress and model to predict student success on assessment
- Developed automation pipeline for department to email messages to hundreds of students daily

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

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

## Selected Talks and Presentations

**Finite Simple Groups: Thirty Years of the Atlas and Beyond**, poster session. 11/2015, Princeton.

**AMS Central Fall Sectional Meeting**, Special Session on K-Loops, Near Domains, and Nonassociative Division algebras. 10/2015. Loyola University.

**AMS Central Spring Sectional Meeting**, Special Session on Groups and Representations, 4/2015. Michigan State University.

## Projects and Workshops

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

- Co-lead of 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: Aug 10, 2020*