

DUNCAN GATES • DATA/BUSINESS ANALYST

Analytically minded and detail-oriented with several years of experience with cross-functional teams in blending advanced research skills with robust data engineering expertise. Deeply passionate about data-driven problem solving and applications to benefit the public good via innovation and effective communication.

POSITIONS

- 2023

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Data Analyst (Sr. Specialist)
Teaching LabRemote

- Utilized state-of-the-art data analytics and machine learning techniques to analyze educational trends, optimize learning pathways, and enhance the effectiveness of field work.
 - Managed the establishment of ML data pipelines and creation of a data “storytelling” system while overseeing data science interns
 - Defined and validated data with 20+ school districts to ensure data quality and monitoring
- 2021

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Data Analyst (Specialist)
Teaching LabRemote

- Created 25+ advanced custom Shiny dashboards, reports, automated emails, and data marts related to field research for professional learning as well as the internal website that hosts them.
 - Spearheaded the integration of advanced data storage solutions and ETL processes, significantly improving data accessibility and reliability along with a 51% reduction in overall processing time.
- 2020

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Data Science Intern
Data Science for the Public GoodOregon State University

- Work was done to measure the impact of the installation of a Selective Water Withdrawal Tower at the Pelton Dam on the Deschutes River. This investigation primarily was based on modelling river temperatures, but also allowed for learning. My team built an [R Shiny application](#), presented at scientific symposiums, and worked collaboratively with officials from PGE, ODFW, ODEQ, and cities on the Deschutes.

EDUCATION

- 2020
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2017

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H.B.S. in Economics w/ minors in Actuarial Science and Political Science
Corvallis, OROregon State University

- Thesis: The Relationship Between Income Taxation, Social Benefits, and Wealth Inequality in OECD Countries: Exploring the Factors Contributing to Unequal Household Wealth
 - Honors College Student
 - GPA: 3.82






CERTIFICATIONS AND HONORS

- **Coding Credentials**
Datacamp

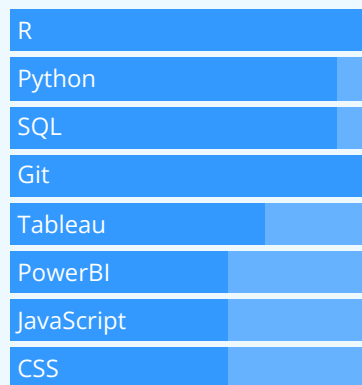
- Certifications as Data Scientist in R, Data Scientist in Python, SQL, git, machine learning, and specific packages listed [here](#).
- **Honors**
Oregon State University

- Phi Beta Kappa (Academic Honor Society)
 - Dean’s List Every Term of Attendance (2017-2020)
 - Omicron Delta Epsilon (Economics Honors Society)

CONTACT

-  duncanagates@gmail.com
-  Website
-  Github
-  LinkedIn
-  971-413-3852

LANGUAGE SKILLS



PROJECTS

All projects available on [github](#).

Spotify Music Recommendation: Beyond What You Already Like
Algorithmic music recommendation using markov chains.

The US Supreme Court: Business Decisions Looking at the supreme court turnover rate by President, and testing the number of decisions and certs granted in election years.

Avocado Price Forecasting (2021)
Forecasting project w/ ARIMA, modelling, and time series analysis, projections were 98% accurate!

Wealth and Happiness: Does Household Wealth Equate to Happiness?
Econometric exploration of whether wealth correlates to happiness w/ linear, and logistic regression.