

DUNCAN GATES

As a soon-to-be graduate of Oregon State University with focuses in a variety of fields I have found my interests primarily coalesce around translating data into insight, through the application of statistics, coding, and deep understanding of individual issues. Following my recent internship experience at [Data Science for the Public Good](#) I have enhanced my focus to projects that will have significant positive impacts on the lives of others.

EDUCATION

- 2020
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2017
- **B.S. in Economics w/ minors in Actuarial Science and Political Science**
Corvallis, OR 📍 Oregon 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

SELECTED POSITIONS

- 2020
- **Data Science Intern**
Data Science for the Public Good 📍 Oregon 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.
- 2020
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2019
- **Undergraduate Research Assistant**
OSU Economics Research 📍 Oregon State University
 - Conducting economic research under the guidance of numerous professors
 - Field research to gather panel and time series data
- 2019
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2015
- **Rental Location Manager**
Portland, Oregon 📍 Alder Creek Kayak & Canoe
 - Spent summers working as a rental location manager for a kayak company.

SELECTED CERTIFICATIONS, CLASSES, AND HONORS

- **Coding Credentials**
Datacamp
 - Certifications as Data Scientist in R, Data Scientist in Python, SQL, git, machine learning, and specific packages listed [here](#).
- **Classes**
Oregon State University
 - STAT 411-413: Methods of Data Analysis, MTH 463: Probability
 - CS 434: Machine Learning and Data Mining, STAT 441: Probability and Simulation
 - ECON 427,428: Econometrics and Research Methods

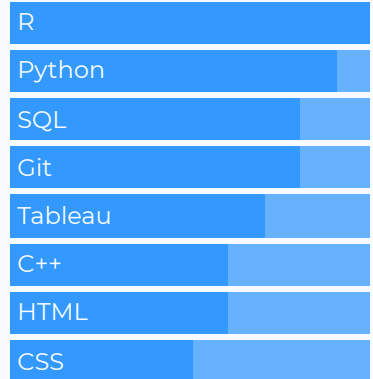
Note that class work is also available on github!
- **Honors**
Oregon State University
 - Phi Beta Kappa (Academic Honor Society)
 - Dean's List Every Term of Attendance (2017-2020)
 - Omicron Delta Epsilon (Economics Honors Society)



CONTACT

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LANGUAGE SKILLS



PROJECTS

All projects available at github.com/dungates

Hot Hand Simulation:
Monte Carlo Simulation to determine independence of streaky shooting.

Spotify Machine Learning:
Algorithmic music recommendation using markov chains.

Tinder Romance Algorithm:
K-means clustering to determine optimal dating app profiles.

Wealth and Happiness:
Econometric exploration of GSS data w/ linear and logistic regression.

Made w/ [pagedown](#).
Source code: github.com/dungates/cv.
Last updated on 2020-11-29.