GENEVIEVE DORRELL

She/Her/Hers

CONTACT ME

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SKILLS SUMMARY

Independent Academic Research
Arc GIS - Geospatial data
Biological Field Research
Statistical Data Analysis
Python
Deep Learning
Statistics and R
C and C ++
Flask library
ML - Pytorch/Sklearn/Pandas/Numpy
Clustering (unsupervised ML)
Time series Models
Topic Modeling-LDA
Object Oriented Programming
Algorithms and Data structures
SQL - Hive, Impala, Pyspark
CSS, JavaScript, PHP, HTML
Dataiku Platform
Unix env
Windows env
Microsoft Office Suite
Power BI

AWARDS RECEIVED

- Awarded the merit-based University of Oregon summit scholarship
  2017
- Won 3rd place at the sustainable invention immersion week
  2017
- Won the award of best biology poster at the undergraduate research symposium
  2018
- Awarded the Mary G. Alden Scholarship from the University of Oregon
  2018
- Chosen as an empowered woman for my work planning sustainability events at Capgemini
  2022

OBJECTIVE

I want to use my skills in geospatial data, modeling and conservation to help mitigate climate change.

EDUCATIONAL HISTORY

University of Oregon

Bachelor of Science | Sept 2017 - June 2021

- Double major in **Biology** and **Computer Science**
  - Relevant Coursework: Ecology Conservation, Algorithms Modeling and Statistics
- Departmental Honors
- GPA: 3.74
- Phi Beta Kappa member

University of Alberta

Masters | Sept 2032 - present

- Transatlantic masters of **forestry**
- Relevant Coursework: Silviculture, Forest Ecology, Wildfire, Multivariable statistics

WORK EXPERIENCE

Data Scientist

Capgemini | Sept 2021 - Current | Full Time

- Lead a data-driven risk assessment project
- Created customer segments using clustering algorithms
- Worked in a team to predict client's cash flow using time series models
- Co-Lead of the Sustainability pillar in the Young Professionals community

Teaching Assistant

University of Oregon | Jan 2021 - June 2021 | Part Time

- Taught object-oriented programming in python
- Facilitated class labs and worked with students one on one during office hours

IT Intern

Harry and David | June 2020 - Sept 2020 | Full Time

- Helped employees navigate a newly remote workplace at the beginning of the pandemic
- Created and Ran scripts in PowerShell to automate system management
- Was the second most productive IT employee as an intern

REFRENCES

- My thesis advisor and professor: Assistant Professor Thanh Hong Nguyen at University of Oregon thanhhng@cs.uoregon.edu +1 (217)-904-5864
- My thesis Advisor: Assistant Professor Lucas de Silva at University of Oregon lsilva7@uoregon.edu +1 (530)-601-0410
- My learning assistant supervisor and professor: Professor Michal Young at University of Oregon michal@cs.uoregon.edu (541)-556-9099
- My IT intern supervisor: Head of IT at Harry and David: Travis (541)-499-5300
- My web developer supervisor: Sarah Conley: (541)-517-8464 Sconley@uoregon.edu
- My Cowerker: A fellow data Data scientist and client of Capgemini, Kristian Doty krisadoty@gmail.com (919)-803-9269
- My manager: a fellow data scientist and client of Capgemini, Rana Thakur thakur.rana@gmail.com (615)-686-6724
- My supervisor: Lead of the data science team and client of Capgemini, Shankar Ranganathan https://www.linkedin.com/in/shranganathan/

Web Developer

University of Oregon | Jan 2020 - Sept 2020 | Part Time

- Maintained and launched websites for professional conferences
- Edited CSS, HTML, and PHP web pages to update conference websites
- Worked in a professional development environment with git

Field Biologist

Smithsonian Tropical Research Institute | June 2020 - Sept 2020

- Researched *Bartholomea annulata* shrimp habitat associations
- Conducted snorkel field surveys

Harms Lab

University of Oregon | Fall 2017 - Jun 2019 | Part Time

- Researched the unpredictability of protein evolution by gathering data on how different combinations of mutations affected the lac repressor protein's functionality
- Used Jupiter notebooks to process spectroscopy data

PROJECTS

Honors Thesis

Wildfires are devastating the west coast of North America including the town I grew up in. I used geo tiff data, Arc Gis, Pytorch, Sklearn and machine learning techniques to develop a new methodology for wildfire severity prediction.

ESG Scoring

As a side project at Capgemini, I am currently working with leadership to develop an analytical approach to Environmental Social and Governance scoring for insurance companies.

Carbon Footprint Calculator

For a class project I created a web application, linked above, geared towards college students that calculates their carbon footprint.

Assiteted Tree Migration for Climte Adaptation

I am currently modeling how the changing climate will impact the forests of Canada at a national level. The goal is to predict how tree seed sources could be shifted to mitigate maladaptation caused by climate change. My efforts are part of a larger national research project entitled: "DIVERSE: Nationwide testing of a forest management approach based on functional diversity and connectivity to foster social acceptability and forest resilience to global change" I am using my quantitative skills to determine the experimental planting stock for the project.