

JESSICA GARDIN

DATA SCIENTIST

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PROFILE SUMMARY

Result-oriented leader with established people skills and project management experience. Able to analyze large sets of data, detect trends, and identify the best course of action to lead the team to success. 5+ years coding experience, most recently focused on Python and SQL.

TECHNICAL SKILL

Python - SQL - Matplotlib - MySQL - Pandas - NumPy - Git - Applied Statistics - Machine Learning - Natural Language Processing - Data Storytelling - Spark - Excel

PROFESSIONAL SKILL

Team Leadership - Time Management
Effective Communication - Integrity

EDUCATION

Data Science Certificate

May - Oct 2022

Codeup

Utilized above technical skills to perform statistical tests, explore, find patterns, model, visualize, predict, and communicate data analyses.

Masters of Arts Chemistry GPA 3.86

2014 - 2016

University of Arizona

Coding: MatLab, Mathematica, LabView, and Excel

Courses: Quantum Chemistry, Statistical Thermodynamics, Chemical Physics of Condensed Phases, and Intro to Molecular Spectroscopy

Bachelors of Science ACS Chemistry GPA 3.61

2009 - 2013

Minors: Mathematics and Physics

Northern Arizona University

Coding: MatLab, Excel

Courses: Intro to Linear Algebra, Complex Variables, Material Science, Chemistry Instrumental Analysis, Modern Physics, Electricity and Magnetism

ACADEMIC CODING PROJECTS - 2022

Acea Smart Water Time Series Analysis

- Techniques: phase shifting, spearmanr statistical tests, correlation analysis
- Models: General Linear Model (GLM), Previous Cycle, Polynomial Regression, Gradient Boosting Regressor, Simple Average, Holt's Linear

Zillow Regression and Zillow Clustering Projects

- Techniques: kmeans clustering, filling nulls, scaling data, t-test and pearsonr statistical testing
- Models: Linear Regression, Polynomial Regression, GLM, LassoLars

Social Media Engagement Analysis, Time Series and Natural Language Processing

Analyzed > 1.5 million data points

- Techniques: cleaning, preparing, and formatting data, creating word-clouds, pearsonr stats test
- NLP Models: Term Frequency- Inverse Document Frequency, RandomForestRegression, Linear Regression, GLM, LassoLars, Simple Frequency
- Time Series Models: Last Observed Value, Moving Average, Holt's Linear Trend, Previous Cycle, Facebook Prophet, ARIMA, Long Short Term Memory Neural Network

WORK EXPERIENCE

US Navy Officer, Nuclear Power Training Unit Instructor 2016 - 2022

Engineer Officer of the Watch, Engineer Duty Officer

MTS 701 Sea Returnee Off Crew Divisional Officer

- Coding: Excel VBA
- Analyzed data to drive and implement curriculum modifications
- Used Excel to optimize manpower and resource allocation
- Prepared and administered Staff Exams
- Spearheaded procurement and installation of facility computer network

MTS 635 & 701 Crew Training Officer

- Established 2 of the 5 crews on the MTS 701 as new program was developing and growing
- Trained staff and students on Nuclear Reactor Operations

University of Arizona 2014 -2016

Graduate Student, General Chemistry Teaching Assistant (TA), TA Mentor

- Coding: LabView, MatLab, Mathematica
- 1 & 2D fluorescence spectroscopy, femtosecond spectroscopy
- Chemical waste management
- Taught chemistry labs
- Performed peer evaluations and ensured consistent teaching practices

Research Experience for Undergraduates 2013

- Increased photocatalytic efficiencies of cadmium sulfide quantum dots by 300%
- Authored paper "Materials and Devices for Information Technology Research Review of Undergraduate Research" for National Science Foundation Center

NASA Space Grant Internship 2012 -2013

Intern

- Performed literature research, designed and executed experiments, prepared samples for testing, characterized types of shear strength failure
- Improved interlaminar shear strength of high temperature matrix resin reinforced with carbon fiber
- Presented findings at 2013 NASA Space Grant Symposium in Tempe, AZ

VOLUNTEER WORK

Bike Trail and Bridge Maintenance 2019 -2020

**Volunteer Coordinator for Alpha Chi Sigma
Professional Chemistry Fraternity** 2015 -2016

Counselor for Collegetown Northern Arizona University 2012