

Maria Diaz

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Education

California Polytechnic University, Pomona, (Expected May 2020)

Master of Science in Applied Mathematics

- Member, California Mathematics Council

University of California Riverside, Riverside, (September 2014 – June 2018)

Bachelor of Science in Applied Mathematics

- Dean's Honor List

Related Coursework

- Computer Science
- Machine Learning
- Mathematical Programming
- Probability and Statistics
- Optimization
- Mathematical Modeling

Experience

Associate Data Analyst, Sheikh Shoes, Ontario, CA (July 2018 - Present)

- Strengthen our reporting strategies and manage project timelines to address marketing, distribution, and finance questions
- Transform Excel reports into Python Notebooks using Pandas to increase reporting efficiency by 75%
- Effectively communicate with external clients and collaborate with internal teams to deliver solutions in a timely fashion

Graduate Teaching Associate, CPP Mathematics and Statistics, Pomona, CA (January 2019-Present)

- Responsible for teaching Trigonometry to 31 undergraduates resulting in 80% of students passing with a B average or better
- Communicate and explain mathematical concepts while facilitating discussions tying back to examples within the workforce
- Provide mentorship and feedback for students throughout the semester and serve as a link between students and faculty

Research Intern, UCR Career Center, Riverside, CA (March 2018 - June 2018)

- Drove innovation and researched opportunities that would improve the website to help transform student experiences
- Influenced large matrixed teams to develop analysis and reporting focused on student performance and engagement
- Collected data that focused on improving the resources available to the increasing number of students pursuing a PhD

Undergraduate Research Assistant, UCR Mathematics Department, Riverside, CA (August 2017 - June 2018)

- Programmed an algorithm in Python that dealt with effective divisors which is extensively studied in algebraic geometry
- Interpreted and scrutinized large data sets in order to develop a system that can find a correlation between data points
- Collaborated with advisor weekly to test data hypotheses and discuss future implementations as well as project goals

Academic Projects

Neural Network (Artificial Intelligence), Mathematical Programming, Spring 2019

- Engineered a pattern recognition neural network in MATLAB that classified wines by winery based on its chemical characteristics, and was then generalized to accurately classify wines that were not used to design the solution

Machine Learning Algorithm, Applied Regression Analysis, Spring 2019

- Composed multiple statistical regression models and algorithms like KNN, Splines, and Kernels in R to decipher the magnitude of the long-term ozone trend and the variables that effect the ozone layer the most

Social Networking Algorithm, Mathematical Modeling, Fall 2017

- Designed real-time embedded system in MATLAB dealing with social network analysis to classify patterns made by the individual as well as the community, trace influential entities, and scrutinize network dynamics

Skills and Abilities

- Data Science Competencies: Research, Machine Learning, Data Analytics, Data Visualization, Data Intuition, Networking
- Programming Languages: R, Python, LaTeX, C++, MATLAB
- Computer: Microsoft Office Suite Certified, Photoshop, Google Drive, Canva (graphic design), WordPress