Odaiclet Marina Piccinini

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Education

UC Berkeley BA in Cognitive Science with Minor in Data Science **GPA:** 3.74 **Expected June 2022**

Honors Societies: Alpha Gamma Sigma & Phi Theta Kappa

Relevant Coursework: Discrete Math, Statistics, Linear Algebra, Calculus, Differential Equations, Matlab, C++, Python, Research Methods, Computational Models of Cognition

Skills

Programming Languages: Python, R, Matlab, C++
Tools: Jupyter Notebook, RStudio, Google Colab, Matlab, Xcode
Spoken Languages: English (near native), Spanish (native)
Citizenships: United States (permanent resident), Venezuela (citizen)

Work Experience

Research Assistant | National Science Foundation & Northern Arizona University **June 2020 – Aug 2020**

- Received grant from the National Science Foundation to conduct astrophysics research
- Analyzed sky survey data from ATLAS and ZTF telescopes, leading to the detection of 7000+ asteroids
- Communicated results through data visualization, presentations, and reports

Lead Tutor | College of Marin **Jan 2017 – May 2020**

- Designed transition guides that helped train 50+ staff members on remote meeting software (Zoom) amidst COVID-19 pandemic
- Provided 50+ hours of individualized tutoring to students in Mathematics including calculus, linear algebra, and statistics, as well as English, Spanish, and ESL courses

Projects

Modeling the Shape of Asteroid 2015 KZ120 | **Analysis**

- Developed a mathematical model using data query that derives rotational periods, light curves, and colors of 40+ asteroids used sky survey data from ATLAS and ZTF telescopes
- Derived a previously-unknown rotational period and shape of an asteroid using light curve inversion techniques
- Used python, collab notebooks and published algorithms for this work

Index Fund Investment Portfolio Calculator | **Analysis**

- Created a shiny app that calculates the total stock market of an index fund to track the future performance of the initial investment
- Used R, diverse shiny gadgets, and future value calculations assuming a normal distribution to illustrate the flow of an investment assuming annual or monthly contributions

Hurricane Pattern Validation | **Analysis**

- Applied exploratory data analysis and data visualization in R to understand hurricane patterns
- Results illustrated a greater frequency of hurricanes than initially proposed

Trends of Population, Poverty, Fertility and Child Mortality (Team Project) | **Analysis**

- Used Python and Jupyter notebooks to analyze and visualize relationships in the data highlighting trends in worldwide population growth and poverty over time
- Used data and inferential statistics to measure the relationship between fertility rates and child mortality across continents
- Results indicate that environmental factors influence population growth and extreme poverty has increased in the United States while decreasing in China

Leadership

President | Alpha Gamma Sigma Honor Society of College of Marin (AGS) **Fall 2019 – Spring 2020**

- Led weekly board meetings, fundraising events, and volunteering activities for 70+ members
- Worked with Treasurer to create budget and fundraised $6000+ for the club

President/Co-Founder | Women in Tech Club of College of Marin (WIT) **Fall 2018 – Spring 2020**

- Founded in response to lack of diversity and inclusion within university's computer science community
- Led weekly board meetings (1 hour) with 7 board members and 1 advisor via Slack
- Facilitated information about local internships opportunities, guest talks, and hackathon's for all members

Introduction to Physics, College of Marin | Guest Speaker **October 2020**

- Facilitated an introduction to astrophysics lecture and shared research findings to a class of 20+ students