Odaiclet Marina Piccinini

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Education

UC Berkeley BA in Cognitive Science with Minor in Data Science **GPA:** 3.49 **Expected June 2022**

College Of Marin **GPA**: 3.50 **June 2020**
Associate of Science - Transfer Degree in Mathematics
Liberal Arts Degree with emphasis in Natural Science and Behavioral Science

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

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.

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 | Analysis
- Used python and Jupyter notebooks to analyze and visualize the relationship between highlight 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

Community Engagement & Awards

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

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)