ESTEBAN ESCOBAR

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Education

University of California Irvine September 2021 - June 2023
Master's Degree in Statistics - 3.54

California State Polytechnic University, Pomona August 2019 - May 2021
Master's Degree in Applied Mathematics - 3.96 GPA

California State Polytechnic University, Pomona September 2017 - May 2019
Bachelor's of Science in Applied Mathematics - 3.74 GPA, Degree Honors: Magna Cum Laude, Dean's List all semester, President's List every year

Pasadena City College August 2014 - July 2017
Associate in Arts, Engineering and Technology, Associate in Arts, Natural Sciences, Associate in Science for Transfer, Mathematics AS-T - 3.72 GPA

Work Experience

Graduate Student Researcher June 2022 - May 2023
Statistics Department, UC Irvine

- Contributed to an applied research project investigating the impact of Mild Behavioral Impairment on patients with Alzheimer's disease, utilizing data analysis and interpretation skills.
- Efficiently managed and manipulated complex databases to ensure accurate data storage and facilitate data analysis.
- Effectively communicated project findings to non-statistical individuals through clear, concise presentations and reports.

Teacher Assistant September 2021 - June 2023
Statistics Department, UC Irvine

- Facilitated engaging and informative discussions on a variety of statistical concepts for first-generation college students in various levels of statistical courses.
- Developed weekly discussion plans incorporating group work to reinforce and enhance students' comprehension of statistical topics.
- Provided constructive feedback to students by grading exams and group work assignments in a timely manner.

Graduate Teaching Associate August 22 2019 - May 2021
Mathematics & Statistics Department, Cal Poly Pomona

- Effectively instructed and mentored first-generation college students in various mathematical and statistical courses.
- Designed and implemented dynamic weekly lesson plans featuring a blend of interactive group activities and traditional lecture-style teaching to deepen students' comprehension and application of course materials.
- Offered constructive feedback and evaluation of students progress by grading tests, homework, quizzes, group work, and assignments in a timely and objective manner.

Data Scientist June 16, 2018 - July 29, 2018
Mathematical Science Research Institute, Berkeley, CA

- Collaborated with a research team to develop a model that can detect Atrial Fibrillation via electrocardiograms to show that topological features can help accurately classify single lead electrocardiograms.

Technical Strengths

Microsoft Word, Microsoft Excel, Microsoft PowerPoint, LaTeX, MATLAB, Python, R, Github.

Publication

P. S. Ignacio, C. Dunstan, E. Escobar, L. Trujillo, and D. Uminsky, "Classification of single-lead electrocardiograms: TDA informed machine learning," in *2019 18th IEEE International Conference On Machine Learning And Applications (ICMLA)*, pp. 1241–1246, Dec 2019.