

# Marisol Flores

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## EDUCATION

- BS, Mathematics with an emphasis in Statistics
  - California State University, Channel Islands
  - 2021 - 2023

## RESEARCH EXPERIENCE

Academic Researcher, CSU Channel Islands, CA

August 2022 to present

- Validating corrosion prediction models using SVET techniques
- Lead presentations of ongoing research at SACNAS NDiSTEM Conference
- Worked closely with Ph.D. advisor on a weekly basis to drive ongoing research
- Learned to communicate complex concepts across several academic disciplines

## PRESENTATIONS AND RESEARCH PROJECTS

- Junior Seminar “William Gosse and T-test”, Junior Seminar at CSUCI, Nov 2022
- Putnam Problem “Black and White Squares”, Senior Colloquium at CSUCI, Dec, 2022
- Student Research “Computational Aspects of Peridynamic Corrosion Damage Modeling and SVET verification techniques”, SACNAS NDiSTEM Conference in Puerto Rico, Oct 2022

## RELEVANT COURSEWORK

- Advanced Data Analysis – studied data management and analytics, bayesian methods, multivariate data, multivariate regression, discriminant analysis, and clustering as well as extensive use of statistical and programming software
- Scientific Computing – examined the challenges of programming computers to perform mathematical computations accurately and efficiently and used knowledge of calculus to solve mathematical problems numerically
- Probability and Statistics – validity of sample methods, statistical conclusions, continuous random variables, distributions
- Mathematical Statistics – sampling distributions, bias, confidence intervals, efficiency, consistency, sufficiency, Cramer-Rao bound, maximum likelihood, hypothesis testing, Neyman-Pearson Lemma, linear models, regression, experiment design, ANOVA, analysis of categorical data, nonparametric methods, and Bayesian estimation

## TECHNICAL SKILLS

- R, Python, Java, Unix, SQL
- Data Visualization, Research-style writing/communication

## LANGUAGES

Native English, conversational Spanish.