Jose Toledo Luna

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Education

University of California, Los Angeles 2021-present
Ph.D in Statistics

California State University, Fullerton 2021
Master of Science, Statistics

California State University, Fullerton 2019
Bachelor of Arts, Mathematics: Probability and Statistics

Santa Ana Community College 2016
Associate in Science: Mathematics

Teaching Experience

University of California, Los Angeles
Teaching Assistant, Teaching Associate Summer 2022-present

- STATS 10: Introduction to Statistical Reasoning (Fall 2022, Winter 2023, Spring 2023)
- STATS 13: Introduction to Statistical Methods for Life and Health Sciences (Summer 2022, Fall 2023)
- STATS 20: Introduction to Statistical Programming with R (Summer 2024)
- STATS 21: Python and Other Technologies for Data Science (Spring 2023)
- STATS 100B: Introduction to Mathematical Statistics (Summer 2023)
- STATS 100C: Linear Models (Summer 2023)
- STATS 102A: Introduction to Computational Statistics with R (Winter 2025)
- STATS 140/141XP: Practice of Statistical Consulting (Winter 2024, Spring 2024, Winter 2025, Spring 2025)

California State University, Fullerton
Teaching Associate, Lecturer Fall 2019 – Spring 2021, Fall 2024-Current

- Math 115: College Algebra (Fall 2019)
- Math 120: Elementary Statistics (Spring 2020, Fall 2020, Fall 2024)
- Math 338: Statistics Applied to Natural Sciences (Spring 2021, Fall 2024)

Publications

Toledo Luna, J. (2024). *ggDoE: Modern graphs for design of experiments with 'ggplot2'* (Version 0.8). https://CRAN.R-project.org/package=ggDoE

Luna, J., Jaynes, J., Xu, H., & Wong, W. K. (2022). Orthogonal array composite designs for drug combination experiments with applications for tuberculosis. *Statistics in Medicine*, *41*(17), 3380–3397.

Awards/Fellowships

Eugene V. Cota-Robles Fellowship (2021-2025)

Graduate Readiness and Access in Mathematics (GRAM) NSF Fellowship (August 2017 – May 2019), Advised by Dr. Jessica Jaynes

Talks and Presentations

Contributed Talk: Dose Response Modeling for Toxicology Studies
Society for Advancement of Chicanos/Hispanics and Native Americans in Science, Phoenix, Arizona 2024

Contributed Talk: Enhancing Efficient Global Optimization Through a Kriging Based Space Reduction
International Conference of Design of Experiments, University of Memphis, May 08-11. 2023

Poster: Orthogonal Array Composite Designs for Drug Combination Experiments
Society for Advancement of Chicanos/Hispanics and Native Americans in Science, Austin, Texas 2018

Contributed Talk: On Comparisons of Bayesian and Frequentist Estimators
Research for Undergraduates Summer Institute of Statistics, Oregon State University, 2018

Poster: Drug Combinations for KB Oral Cancer
Section Mathematical Association of America, San Diego State University, 2017

Advising

Project-Raise: Graduate Research Mentor

Assist first-generation undergraduate students across various community colleges with the following summer research projects

Golden West College — Summer 2019
Project: Accounting for Type II Error in the Judgment of Significance of Effects in a Two-Level Factorial Design

Los Angeles Community College — Summer 2020
Project: Using Bayesian Analysis to Predict the Final Outcome for the 2019 FIFA Women's World Cup

Orange Coast Community College — Summer 2021
Project: Development of an R package for creating modern graphs using ggplot2 for Design of Experiments

Professional Service

Journal reviewer: Journal of the Indian Society for Probability and Statistics

Assistant Editor of Journal of Statistical Software January 2024-Current

Mentor Judge, Graduate and Undergraduate Statistics Poster Presentations
Society for Advancement of Chicanos/Hispanics and Native Americans in Science, Phoenix, Arizona 2024

Professional Memberships: American Statistical Association (ASA)

Work Experience

Southern California Coastal Water Research Project November 2020 - September 2021
Statistical Programmer

Develop statistical software for applications in storm water best management practices, and emerging contaminants. This included developing `R` shiny web applications, `R` packages and/or Python libraries for clients.

Technical Experience

Programming Languages: `R`, Python

Typesetting: LaTeX, Quarto

Cluster Computing: Slurm Workload Manager

Other: Git/Github, Linux