

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)

STATS 13: Introduction to Statistical Methods for Life and Health Sciences (Summer 2022, Fall 2023)

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 140XP: Practice of Statistical Consulting (Winter 2024)

California State University, Fullerton
Teaching Associate Fall 2019 – Spring 2021

Math 115: College Algebra (Fall 2019)

Math 120: Elementary Statistics (Spring 2020, Fall 2020)

Math 338: Statistics Applied to Natural Sciences (Spring 2021)

Publications

Toledo Luna, J. (2023). *ggDoE: Modern graphs for design of experiments with 'ggplot2'*. <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: 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	

Work Experience

Southern California Coastal Water Research Project Statistical Programmer	November 2020 - September 2021
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Develop statistical software for applications in storm water best management practices, and emerging contaminants. This included creating R shiny web applications, R packages and/or Python libraries for clients.

California State University, Fullerton
Instructional Assistant

Summer 2017
January 2018 - June 2018

Assisting professor during the lecture lab component of an Introductory Statistics course. Helping students out with their lab assignments and get them familiarized with the software such as R

Santa Ana Community College
Math Tutor

September 2015 - December 2016

Assisting students with their math classwork from courses ranging from pre-algebra to linear Algebra, including introductory statistics courses

Professional Memberships

American Statistical Association (ASA)

Technical Experience

R Python Git/Github Linux \LaTeX