

Jose Toledo Luna

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Education

University of California, Los Angeles Ph.D in Statistics	2021-present
California State University, Fullerton Master of Science, Statistics	2021
California State University, Fullerton Bachelor of Arts, Mathematics: Probability and Statistics	2019
Santa Ana Community College Associate in Science: Mathematics	2016

Teaching Experience

University of California, Los Angeles

Teaching Assistant, Teaching Associate	Summer 2022-present
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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 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 140/141XP: Practice of Statistical Consulting (Winter 2024, Spring 2024)

California State University, Fullerton

Teaching Associate, Lecturer	Fall 2019 – Spring 2021, Fall 2024-Current
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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

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
Statistical Programmer

November 2020 - September 2021

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

Technical Experience

R Python Git/Github Linux \LaTeX