

Isaac Noe Quintanilla Salinas

isaac.qs@csuci.edu · inqs.info

Education

University of California, Riverside PhD: Applied Statistics	Riverside, CA 2022
<ul style="list-style-type: none">• Dissertation: Multilevel Time-Varying Joint Models for Longitudinal and Survival Outcomes• Advisor: Dr. Esra Kürüm	
San Diego State University MPH: Biometry	San Diego, CA 2015
<ul style="list-style-type: none">• Capstone: Patient-Physician Communication and Influenza Vaccine Uptake	
California State University Monterey Bay BS: Biology	Seaside, CA 2013
<i>Minor in Mathematics</i> <ul style="list-style-type: none">• Capstone: Phylogenetic and Biochemical Analysis of novel <i>Acidovorax</i> Species isolated using Diazinon enrichment culture.	

Professional Appointments

Assistant Professor California State University Channel Islands Department of Mathematics	Camarillo, CA
--	---------------

Experience

Doctoral Dissertation <i>University of California, Riverside</i> <i>Multilevel Time-Varying Joint Models for Longitudinal and Survival Outcomes</i>	2018-2022 Riverside, CA
<ul style="list-style-type: none">• Developed a novel statistical model to capture the time-dynamic association between longitudinal and survival outcomes.	
Research Internship <i>University of California, San Diego</i> <i>Project: Association between religiosity and clinical trial participation</i>	2015-2016 San Diego, CA
<ul style="list-style-type: none">• Evaluating the relationship between religiosity and participation barriers and benefits to cancer clinical trials among Hispanic Americans. We used different psychometrics to measure religiosity and participation in cancer clinical trials. We used basic correlation to measure the association.	
Internship <i>CDPH Office of Binational and Border Health</i> <i>Project: Antibiotic Usage Study along the CA Border Region</i>	2015-2016 San Diego, CA
<ul style="list-style-type: none">• Evaluating the relationship between certain demographics and antibiotic usage behaviors among shigellosis cases in the California-Mexico Border Regions. I created basic descriptive statistics and bivariate statistics to test the association between characteristics. I created a visual graphs to guide the analysis such as displaying the antibiotic duration by patient.	
Summer Internship <i>Los Angeles County Department of Public Health</i> <i>Project: Vaccine Exemption Study in Los Angeles County</i>	Summer 2014 Los Angeles, CA
<ul style="list-style-type: none">• Performed a spatial analysis on the geographic distribution on vaccine exemption rates among kindergarten students in Los Angeles County. Conducted a literature review to learn more about different spatial statistics, vaccine-preventable-diseases, and personal belief exemptions.	

Internship

SDSU Center for Behavior Epidemiology and
Community Health

Project Fresh Air

- Project Fresh Air is an intervention study to see how the behaviors of participants change once knowing the air quality in their homes. I helped with day to day tasks from collecting both biological samples to creating visual charts in R while learning about intervention studies.

2013-2014
San Diego, CA

Summer Research Internships

Columbia University Medical Center

Project: Donor Age and Mortality after Lung Transplantation Study

- Analyzed the effects of lung donor age and post-lung transplant mortality.
- Developed proportional hazard models and survival curves to evaluate the relationship between donor age and mortality.
- Research was published in the American Journal of Transplantation.

Summer 2012
New York, NY

Teaching, Mentoring, and Tutoring

Assistant Professor

California State University Channel Islands

- MATH 201: Elementary Statistics
- MATH 352: Probability and Statistics
- MATH 398: Advance Research Investigation
- MATH 408: Advance Data Analysis
- MATH 453: Mathematical Statistics

2022-Present
Camarillo, CA

Associate Instructor

University of California, Riverside

- STAT 127: Introduction to Quality Management
- STAT 147: Introduction to Statistical Computing

2021-2022
Riverside, CA

Teaching Assistant

University of California, Riverside

- STAT 048: Introduction to Business Statistics
- STAT 100: Introduction to Statistics
- STAT 170: Regression and ANOVA

2017-2021
Riverside, CA

Creator, Coordinator, and Mentor

University of California, Riverside

SMART Program

- Developed, coordinated and mentored for the Statistical Mentoring in Applied, Research, and Technology (SMART) Program. Developed a mentoring program for undergraduate students to be mentored by graduate students for a quarter. Coordinated the pilot program in Spring 2021. Mentored an undergraduate student in developing an R package to teach advanced statistical techniques.

2017-2021
Riverside, CA

Instructor

University of California, Riverside

Upward Bound

- Summer 2020: Taught Public Health and Geometry to underserved High School students from UC Riverside's Upward Bound Program. My responsibilities were to deliver instructions in a virtual setting. An R package was developed to teach public health concepts and programming simultaneously.
- Summer 2019: Taught Statistics and Data Analysis to underserved High School students from UC Riverside's Upward Bound Program. I was responsible in developing both the Statistics and Data Analysis course to teach students how to work with data. Students learned how to analyzed different types of data and how to program in R.

Summer 2017, 2018, 2019, 2020
Riverside, CA

- Summer 2018: Taught Public Health, 2nd Year Research (STEM/Social Science/Humanities), and Math (Algebra 2, Pre-Calculus, and Calculus Levels) to underserved High School students from UC Riverside's Upward Bound Program. I was responsible in developing the Public Health course and challenge students perspectives about different communities. Second Year Research entailed advising students on their research projects in any field they chose.
- Summer 2017: Taught Epidemiology, Math Research, and Math/Science (Pre-Calculus and Calculus Levels) to underserved High School students from UC Riverside's Upward Bound Program. I was responsible in developing the Epidemiology to help High School students develop their critical thinking skills and raise awareness of the different career options they could pursue.

Mentor/Instructor

University of California, San Diego
Summer Science Enrichment Program

Summer 2015 and 2016
San Diego, CA

- Mentored students to conduct literature reviews, write manuscripts, and analyze data. In addition, I worked with my colleagues to develop a course in statistics. The course focused on teaching the basics of statistics which included descriptive statistics, statistical tests, and regression.

Tutor

California State University, Monterey Bay

2011-2013
Seaside, CA

- Department of Mathematics and Statistics: Math Tutor
- Academic Skills Achievement Program: Science (Chemistry) Tutor

Publications

In-Review

- Magdaleno, Francisco, **Salinas INQ**, and Rothstein, Stephen. Vocal Functional Flexibility in a Non-Primate Vocal Learning Species. *Journal of Language Evolution*
- Hawkins LR, Magdaleno F, **Salinas INQ**, and Peer BD. Egg shape in an obligate brood parasite contributes to decreased temperature variation during incubation. *Current Zoology*
- Krisha Algosio, Selene Lopez, Barbara Reque, Leniha Lagarde, Natalie Leon, Gabriella Amador, **Isaac Quintanilla Salinas**, Ashley McCarley, and Caryl Ann Becerra. Antibacterial Potential of Native Medicinal Chumash Plants on *Bacillus subtilis*, *Escherichia coli*, and *Pseudomonas fluorescens*. *Microorganisms*
- Azer, Lilian; **Salinas, Isaac**; Kürüm, Esra; Ferguson, Leah; Davis, Elizabeth; Zhang, Weiwei; Strickland-Hughes, Carla; Wu, Rachel. Subjective Executive Functioning and Skill Learning during the COVID-19 Pandemic Associated with Perceived Loneliness, Depressive Symptoms, and Well-being. *The International Journal of Aging and Human Development*.

Peer-Reviewed Journals

- Juarez BH, **Quintanilla-Salinas I**, Lacey MP, O'Connell A. (2024) Water Availability and Temperature as Modifiers of Evaporative Water Loss in Tropical Frogs. *Integrative and Comparative Biology*. doi.org/10.1093/icb/icae057
- Flores A., Parker Cappiello L., **Quintanilla Salinas I**. (2023) Challenges and successes of emergency online teaching in statistics courses. *Journal of Statistics and Data Science Education*. doi.org/10.1080/26939169.2023.2231036
- Gill AS, Perez L, **Salinas INQ**, Byers SR, Liu Y, Hickey BL, Zhong W, Hooley RJ. Selective Array-based Sensing of Anabolic Steroids in Aqueous Solution by Host: Guest Reporter Complexes. *Chemistry*. 2019. 25(7):1740-1745. doi: 10.1002/chem.201804854
- Bellettiere J, Chuang E, Hughes SC, **Quintanilla I**, Hofstetter CR, Hovell MF. Association Between Parental Barriers to Accessing a Usual Source of Care and Children's Receipt of Preventative Services. *Public Health Reports*. 2017. 132(3):316-325. doi:10.1177/0033354917699831
- Pretanvil JA, **Salinas IQ**, Piccioni DE. Glioblastoma in elderly: treatment patterns and survival. *CNS Oncology*. 2016. 6(1):19-28. doi: 10.2217/cns-2016-0023.

- Baldwin MR, Peterson E, Easthausen I, **Quintanilla I**, Colago E, Sonett JR, D'Ovidio F, Bacchetta M, Costa J, Diamond J, Christie JD, Arcasoy SM, Lederer DJ. Donor age and early graft failure after lung transplantation: a cohort study. *Am J Transplant*. 2013. 13(10):2685-95. Epub 2013/08/26. DOI: 10.1111/ajt.12428.

Reports

- Santibáñez M, Yoon S, Britton J, **Quintanilla I**, Dowling SH, Noregia A, Fernandez A. Border Health Epidemiology Report 2015. California Department of Public Health Office of Binational and Border Health. 2016.
- Santibáñez M, Yoon S, **Quintanilla I**, Ta T, Fernandez A. Border Health Status Report 2012-2014. California Department of Public Health Office of Binational and Border Health. 2015.

Posters

- **Quintanilla, I.** (2016). Geographic Distribution of Vaccine Personal Belief Exemptions in San Diego County. Poster presented at San Diego County Epidemiology Exchange. San Diego, CA.
- Reuter C., **Quintanilla I**, Bellettiere J., Berardi V., Robusto K., Hughes S., Hovell M. (2015). The Effect of Prompts to Increase Stair Use Among Escalator Users. Poster presented at SDSU Student Research Symposium. San Diego, CA.
- **Quintanilla Salinas I**, Munoz Brittany, Anastasia Steph, Haffa A. (2013). Phylogenetic and Biochemical Analysis of novel Acidovorax Species isolated using Diazinon enrichment culture. Poster presented at CSUMB Capstone Festival. Seaside, CA.

Presentations

Overview of Joint Longitudinal-Survival Models: Modeling the Association Between Dependent Outcomes

Presenter: Isaac Quintanilla

National Institute of Statistical Sciences

Virtual

June 2021

Geographic Distribution of Vaccine Personal Belief Exemption in San Diego County.

Presenter: Isaac Quintanilla

San Diego County Epidemiology Exchange

San Diego, CA

2016

Vaccination Exemptions among School Children in Los Angeles County

Presenter: Isaac Quintanilla

Public Health Scholar Presentations

Los Angeles, CA

2014

Phylogenetic and Biochemical Analysis of a Novel Acidovorax Species Isolated Using Diazinon Enrichment Culture

Presenter: Isaac Quintanilla

SEP Capstone Spring 2013 Capstone Festival

Seaside, CA

2013

Phylogenetic and Biochemical Analysis of a Novel Acidovorax Species Isolated Using Diazinon Enrichment Culture

Presenter: Isaac Quintanilla and Brittany Munoz

Tri-Beta Pacific District Convention

Azusa, CA

2013

Donor Age and Mortality after Lung Transplantation: A Cohort Study

Presenters: Isaac Quintanilla and Imaani Easthausen

BEST Research Symposium

New York, NY

2012

Educational Programs

CSU AGEF	2023-2024
Early Career Faculty Program	Pomona, CA
<i>California State Polytechnic University Pomona</i>	
Embedded Peer Educator Collaboration	Summer 2023
Faculty Institute	Camarillo, CA
<i>California State University Channel Islands</i>	
Community-Based Research	2022-2023
Faculty Fellows Program	Camarillo, CA
<i>California State University Channel Islands</i>	
Minority Training Program in	2015
Cancer Control Research	Los Angeles, CA
<i>University of California, Los Angeles</i>	
<i>Fielding School of Public Health</i>	
Public Health Scholars Program	2014
<i>County of Los Angeles</i>	Los Angeles, CA
<i>Department of Public Health</i>	
Biostatistics Enrichment Summer Training	2012
Diversity Program	New York, NY
<i>Columbia University Medical Center</i>	
<i>Mailman School of Public Health</i>	
<i>Department of Biostatistics</i>	
Summer Medical and Dental	2011
Education Program	New York, NY
<i>Columbia University Medical Center</i>	
<i>College of Physicians and Surgeons</i>	

Committees

- Co-Chair: CSUCI Data Science Program Development Task Force

Grants and Awards

- 2024-2025: CSUCI Research, Scholarly, and Creative Activities Grant
- 2023-2027: California Educational Learning Lab Grant - Building a Critical Mass for Data Science
- 2023-2024: CSUCI Research, Scholarly, and Creative Activities Grant
- 2021: CNAS DEI Scholarship
- 2021: UCR Statistics Department Outstanding TA Award
- 2020-2021: Graduate Research Mentorship Fellowship
- 2016-2019: Eugene Cota-Robles Fellowship
- 2013: SDSU Graduate Equity Fellowship
- 2013: CSUMB Capstone Grant

SKILLS

- **Languages:** R, Stan, Markdown, SAS, LaTeX, and C++
- **Tools:** Bash, Git, SPSS, and ArcGIS
- **OS:** Windows and Linux