Isaac Noe Quintanilla Salinas

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Education

University of California, Riverside

Riverside, CA

PhD: Applied Statistics

2022

- · Dissertation: Multilevel Time-Varying Joint Models for Longitudinal and Survival Outcomes
- Advisor: Dr. Esra Kürüm

San Diego State University

San Diego, CA

MPH: Biometry

2015

• Capstone: Patient-Physician Communication and Infleunza Vaccine Uptake

California State University Monterey Bay

Seaside, CA

BS: Biology

2013

Minor in Mathematics

Capstone: Phylogenic and Biochemical Analysis of novel Acidovorax Species isolated using Diazinon enrichment culture.

Professional Appointments

Assisstant Professor

Camarillo, CA

California State University Channel Islands Department of Mathematics

Experience

Doctoral Dissertation

2018-2022

University of California, Riverside

Riverside, CA

Multilevel Time-Varying Joint Models for Longitudinal and Survival Outcomes

Developed a novel statistical model to capture the time-dynamic association between longitudinal and survival outcomes.

Research Internship

2015-2016

University of California, San Diego

San Diego, CA

Project: Association between religiosity and clinical trial participation

• 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 2015-2016

CDPH Office of Binational and Border Health

San Diego, CA

Project: Antibiotic Usage Study along the CA Border Region

• 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

Summer 2014

Los Angeles County Department of Public Health

Los Angeles, CA

Project: Vaccine Exemption Study in Los Angeles County

• 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 2013-2014 San Diego, CA

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.

Summer Research Internships

Summer 2012

Columbia University Medical Center

New York, NY

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 mortal-
- Research was published in the American Journal of Transplantation.

Teaching, Mentoring, and Tutoring

Assistant Professor 2022-Present

California State University Channel Islands

Camarillo, CA

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

Associate Instructor 2021-2022

University of California, Riverside

• STAT 127: Introduction to Quality Management

Riverside, CA

- STAT 147: Introduction to Statistical Computing

Teaching Assistant

2017-2021

University of California, Riverside

Riverside, CA

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

Creator, Coordinator, and Mentor

2017-2021

University of California, Riverside

Riverside, CA

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.

Instructor

Summer 2017, 2018, 2019, 2020

University of California, Riverside

Riverside, CA

- 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 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 there critical thinking skills and raise awareness of the different career options they could pursue.

Mentor/Instructor

Summer 2015 and 2016 San Diego, CA

University of California, San Diego

Summer Science Enrichment Program

• 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.

TutorCalifornia State University, Monterey Bay
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 Algoso, 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 QuintanillaPublic 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 AGEP 2023-2024 **Early Career Faculty Program** Pomona, CA California State Polytechnic University Pomona **Embedded Peer Educator Collaboration** Summer 2023 **Faculty Institute** Camarillo, CA California State University Channel Islands Communiy-Based Research 2022-2023 **Faculty Fellows Program** Camarillo, CA California State University Channel Islands **Minority Training Program in** 2015 **Cancer Control Research** Los Angeles, CA Univerity of California, Los Angeles Fielding School of Public Health **Public Health Scholars Program** 2014 County of Los Angeles Los Angeles, CA Department of Public Health **Biostatistics Enrichment Summer Training** 2012 New York, NY **Diversity Program** Columbia University Medical Center Mailman School of Public Health Department of Biostatistics **Summer Medical and Dental** 2011 **Education Program** New York, NY Columbia University Medical Center

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

College of Physicians and Surgeons

- 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