

Thuy V. Lu

Ph.D. Candidate | Department of Statistics | University of California, Irvine
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EDUCATION

Ph.D., Statistics , University of California, Irvine, CA	2020 - Expected 12/2025
Advanced to candidacy: 08/2023	
Dissertation: <i>Interrupted time series methods for non-random sampling study designs</i>	
Advisors: Daniel Gillen, Ph.D., Maricela Cruz, Ph.D.	
M.S., Statistics , University of California, Irvine, CA	2020 - 2023
B.S., Applied Mathematics , California State Polytechnic University, Pomona, CA	2018 - 2020

EXPERIENCE

Graduate Student Researcher, UC Irvine	Fall 2021 - Present
<ul style="list-style-type: none">Develop statistical methods for interrupted time series designs that evaluate the effect of interventions in recruiting underserved communities into research registries.Collaborate with UC Irvine researchers on projects that assess Alzheimer's disease and related disorders clinical trial design, recruitment, and assessment.Develop statistical analysis plans and perform statistical analyses, resulting in first-author manuscripts.	
Statistical Intern, E. & J. Gallo Winery	Summer 2021
<ul style="list-style-type: none">Forecasted sales for wine and spirit products.Produced figures to evaluate product labels and performance of sensory panelists.Developed an R Shiny dashboard to increase efficiency in generating product comparison and shelf-life assessment reports, replacing the previous manual process.	
Graduate Student Assistant, Irvine Summer Institute in Biostatistics and Undergraduate Data Science	Summer 2023, Summer 2022
<ul style="list-style-type: none">Facilitated communication between undergraduate students and UC Irvine researchers throughout project development, enhancing collaboration.Mentored students in successfully completing a research project within a three-week timeframe.	
Teaching Assistant, UC Irvine	
<ul style="list-style-type: none">Led weekly discussion sessions for approximately 50 students.Created and graded problems for discussion, homework, quizzes, and exams.	
<ul style="list-style-type: none">- Basic Statistics	Summer 2024, Winter 2021, Fall 2020
<ul style="list-style-type: none">- Introduction to Biological Statistics	Spring 2021

HONORS & AWARDS

National Institute on Aging - National Institutes of Health T32 AG00096-41 <i>Training in the Neurobiology of Aging and Alzheimer's Disease</i> PIs: Andrea Tenner, Ph.D., Craig Stark, Ph.D.	2023 - Present
UC Irvine Information and Computer Sciences Innovation Fellowship	2025
UC Irvine Graduate Scholar Success Fund Fellowship	2024

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UC Irvine Statistics Technology Award	2024
UC Irvine Institute for Memory Impairments and Neurological Disorders (UCI MIND) <i>Training Fellowship</i>	2021 - 2022
American Mathematical Society Undergraduate Travel Grant	2020
Cal Poly Pomona Conference Presentation Scholarship	2019
Cal Poly Pomona John and Rosetrina Flaig Mathematics Scholarship	2019
Cal Poly Pomona Dr. Emil R. Herzog Department Scholarship	2019

PUBLICATIONS

Peer-reviewed publications

Lu TV, Campos P, Leader S, Lee X, Xu H, Doran E, Grill JD, Lott IT. "Comparing research attitudes in Down syndrome and non-Down syndrome research decision-makers." *Alzheimer's & Dementia: Translational Research & Clinical Interventions*, Vol. 10, No. 3 (2024).

Lu TV, Grill JD, Gillen DL. "Study partner type and adverse event reporting in mild-to-moderate Alzheimer's disease clinical trials." *Journal of Alzheimer's Disease*, Vol. 98, No. 2 (2024) pp. 729 – 738.

Manuscripts under review

Lu TV, Grill JD, Grillen DL, Cruz M. "Interrupted time series methods for non-random sampling study designs with known sampling weights." *Statistics in Medicine*.

Manuscripts in preparation

Lu TV, Grill JD, Grillen DL, Cruz M. "Generalized weighted interrupted time series model for non-random sampling study designs with discrete outcomes."

Lu TV, Grill JD, Grillen DL, Cruz M. "Assessing spillover effect of an intervention under interrupted time series designs."

Lu TV, Witbracht M, Cruz M, Hoang D, Kind A, Grill JD, Grillen DL. "An interrupted time-series design experiment of research registry recruitment interventions."

Witbracht M, **Lu TV**, Cruz M, Hoang D, Kind A, Grillen DL, Grill JD. "Recruiting individuals from disadvantaged neighborhoods into a local recruitment registry."

PRESENTATIONS

Interrupted time series methods for non-random sampling study designs with known sampling weights

Oral presentation

- Joint Statistical Meetings, Nashville, TN 08/2025
- Western North American Region of The International Biometric Society, Fort Collins, CO 06/2024

An interrupted time-series design experiment of research registry recruitment interventions

Poster presentation

- Alzheimer's Association International Conference, Toronto, Canada 07/2025
- Research and Education in Memory Impairments and Neurological Disorders (REMIND) Emerging Scientists Symposium, Irvine, CA 02/2025

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Generalized weighted interrupted time series model for non-random sampling study designs with discrete outcomes*Oral presentation*

- Western North American Region of The International Biometric Society, Whistler, CA 06/2025

Comparing research attitudes in Down syndrome and non-Down syndrome research decision-makers*Poster presentation*

- Alzheimer's Association International Conference, Philadelphia, PA 07/2024
- REMIND Emerging Scientists Symposium, Irvine, CA 03/2024

The relationship between study partner type and rate of adverse event reporting in mild-to-moderate Alzheimer's disease clinical trials*Poster presentation*

- Alzheimer's Association International Conference, San Diego, CA 08/2022
- REMIND Emerging Scientists Symposium, Irvine, CA 04/2022

Particle swarm optimization-based source seeking with obstacle avoidance*Oral presentation*

- Research, Scholarship, and Creative Activities Conference, Pomona, CA 03/2020
- Joint Mathematics Meetings, Denver, CO 01/2020
- Southern California Conferences for Undergraduate Research, San Marcos, CA 11/2019
- American Mathematical Society Fall Western Sectional Meeting, Riverside, CA 11/2019
- Creative Activities and Research Symposium, Pomona, CA 08/2019

Generalized ballot box problem and finite Markov chains with catastrophe-like transitions*Oral presentation*

- Joint Mathematics Meetings, Denver, CO 01/2020
- American Mathematical Society Fall Western Sectional Meeting, Riverside, CA 11/2019

PROFESSIONAL MEMBERSHIPS

The Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment	2022 - Present
American Statistical Association	2021 - Present
Western North American Region of The International Biometric Society	2021 - Present

PROFESSIONAL SERVICES

Associate Editor, Journal of Alzheimer's Disease	2025 - Present
Co-chair, UC Irvine Research and Education in Memory Impairments and Neurological Disorders (REMIND)	2021 - Present
<ul style="list-style-type: none"> • Organize the annual REMIND Emerging Scientists Symposium for 150 participants, providing opportunities for undergraduate and graduate students and postdocs to present their research in neurodegenerative disease. • Manage the annual UCI MIND - Beall Scholar Program engaging 20 high school students from Orange County, CA to learn about neuroscience research and inspires future careers in STEM. 	
Treasurer, Sophie's Circle - A Society for Women in Mathematics, Cal Poly Pomona	2019 - 2020

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PROFESSIONAL REFERENCES

Daniel Gillen, Ph.D.

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University of California, Irvine
Phone: 949-824-9862
Email: dgillen@uci.edu

Maricela Cruz, Ph.D.

Assistant Investigator, Biostatistics Unit
Kaiser Permanente Washington Health Research Institute
Phone: 206-287-2878
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Joshua Grill, Ph.D.

Professor of Psychiatry & Human Behavior and Neurobiology and Behavior
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