

Thuy V. Lu

Ph.D. Candidate | Department of Statistics | University of California, Irvine
Irvine, CA | lutv@uci.edu | (626) 780-7983 | linkedin.com/in/thuy-lu

SUMMARY

- Biostatistician with expertise in interrupted time series, correlated data, and non-random sampling designs.
- Interdisciplinary collaborator on Alzheimer's disease clinical trials design, recruitment, and assessment.
- Advanced in R programming and skilled in statistical analysis, simulation, data manipulation, and visualization.
- Dedicated to advance health care through addressing real-world challenges in public health and clinical research.

SKILLS

- **Technical:** R, MATLAB, Latex, git, GitHub.
- **Language:** English (fluent), Vietnamese (native).

RELEVANT EXPERTISE

- Generalized linear models
- Survival analysis
- Bayesian statistical analysis
- Correlated data analysis
- Time series analysis
- Inference with missing data
- Categorical data analysis
- Causal inference
- Statistical consulting

RESEARCH EXPERIENCE

- **Graduate Student Researcher, UC Irvine** Fall 2021 - Present
 - 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.
 - Develop statistical methods for interrupted time series designs that evaluate the effect of interventions in recruiting underserved communities into research registries.
- **Graduate Student Assistant,**
Irvine Summer Institute in Biostatistics and Undergraduate Data Science Summer 2023, Summer 2022
 - 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** Fall 2020 - Winter 2021 & Summer 2024
 - Led weekly discussion sessions for approximately 50 students.
 - Created and graded problems for discussion, homework, quizzes, and exams.

INTERNSHIP EXPERIENCE

- **Statistical Intern, E. & J. Gallo Winery** 06/2021 - 09/2021
 - 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.

EDUCATION

- **PhD, Statistics, University of California, Irvine** | GPA: 3.89 2020 - Expected 12/2025
 - Advanced to candidacy: 08/2023
 - Dissertation: Interrupted time series methods for non-random sampling study designs
 - Advisors: Daniel Gillen, PhD, Maricela Cruz, PhD
- **MS, Statistics, University of California, Irvine** | GPA: 3.88 2020 - 2023
- **BS, Applied Mathematics, California State Polytechnic University, Pomona** | GPA: 3.94 2018 - 2020

PUBLICATIONS

- **In preparation**
 - **Lu TV**, Grill JD, Grillen DL, Cruz M. "Spillover effects of interventions under interrupted time series designs."
 - **Lu TV**, Grill JD, Grillen DL, Cruz M. "Generalized weighted interrupted time series model for non-random sampling study designs with discrete outcomes."
- **Peer-reviewed**
 - **Lu TV**, Grill JD, Grillen DL, Cruz M. "Interrupted time series methods for non-random sampling study designs with known sampling weights." *Under review at Statistics in Medicine*.
 - **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.

SELECTED 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
- **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, Canada 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
- **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

PROFESSIONAL SERVICES

- **Associate Editor**, *Journal of Alzheimer's Disease* 2025 - Present
- **Co-chair**, *Research and Education in Memory Impairments and Neurological Disorders (REMIND)* 2021 - Present
 - Organize the annual UC Irvine REMIND Emerging Scientists Symposium for 150 participants, showcasing students and postdocs 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.

HONORS & AWARDS

- National Institute on Aging - National Institutes of Health T32 Training Grant 2023 - Present
- UC Irvine Information and Computer Sciences Innovation Fellowship 2025
- UC Irvine Graduate Scholar Success Fund Fellowship 2024
- UC Irvine Institute for Memory Impairments and Neurological Disorders Training Fellowship 2021 - 2022