Kathleen Medriano

Email: kmedrian@uci.edu | Website: https://Kathleen-Medriano.github.io | Location: Irvine, CA, US

Summary

PhD Student in Cognitive Sciences at University of California, Irvine. Specializing in the intersection of cognitive science, statistics, machine learning, and computational modeling with expertise in time series analysis, Bayesian methods, and statistical modeling.

Education

Cognitive Sciences, PhD
University of California, Irvine

September 2022 - Present

Statistics, Master of Science
University of California, Irvine

September 2022 - December 2024

Mathematics, Graduate Diploma
University of the Philippines, Diliman

August 2017 - July 2019

Psychology, Bachelor of Science
University of Santo Tomas

June 2012 - June 2016

Skills

Publications

Manuscripts in Preparation / Under Review

Bayesian Ornstein-Uhlenbeck Models for Mobile Health Intervention Design
Kathleen Medriano, Joachim Vandekerckhove

In preparation, Expected submission: 2025

Developing Bayesian hierarchical Ornstein-Uhlenbeck models for optimizing intervention timing and effectiveness in mobile health applications.

Statistical Tests for Diffusion Process Sufficiency in Time Series Modeling
Kathleen Medriano, Joachim Vandekerckhove

Under review, Expected submission: 2024

Novel statistical framework for assessing whether diffusion processes adequately capture temporal dynamics in time series data.

Peer-Reviewed Journal Articles

Experiences of COVID-19-recovered healthcare workers in a tertiary hospital in the Philippines: a mixed-method inquiry

MB Carascal, PE Capistrano, MDL Figueras, OLAC Cataylo, SMS Zuñiga, K Medriano

INQUIRY: The Journal of Health Care Organization, Provision, and Financing (2022)

Mixed-methods study examining the experiences and challenges faced by healthcare workers who recovered from COVID-19 in a Philippine tertiary hospital setting.

The HDI+ ROPE decision rule is logically incoherent but we can fix it

Alexander Etz, Andrés F. Chávez de la Peña, Luis Baroja, Kathleen Medriano, Joachim Vandekerckhove

Psychological Methods (2024)

Critical analysis and proposed solution for a commonly used Bayesian decision rule in psychological research.

Online Profiles

Google Scholar: https://scholar.google.com/citations?user=6WX16d8AAAAJ

ORCID: https://orcid.org/0000-0001-6562-439X

GitHub: https://github.com/Kathleen-Medriano