Jonathan Luu

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Education

Harvard University, Graduate School of Arts and Sciences PhD, Biostatistics	Boston, MA May 2024
University of Southern California, Keck School of Medicine MS, Biostatistics	Los Angeles, CA May 2019
University of Southern California, Viterbi School of Engineering BS, Computer Science & Computer Engineering	Los Angeles, CA May 2017
Research Experience	
 Expanding the two-part model for clustered semi-continuous data Developed Bayesian model to efficiently analyze cost and healthcare utilization data in nursing h 	2023 omes
 Applied model and metrics to Medicare data consisting of 20 million nursing home residents 	
Addressing incomplete and missing electronic health records data in implementation science	2022
 Characterized and quantified missing data in EHR databases maintained by community health ce 	nters
HaSET program: Analyzing stunting of newborns in Ethiopia	2022
Analyzed data with significant measurement error to approximate prevalence of stunting in Ethio	•
Duration of viral shedding and culture positivity with post-vaccination breakthrough delta variant infecti	
Collected viral load and culture samples from MGH employees who tested positive for SARS-Co Desformed combined and culture samples from MGH employees who tested positive for SARS-Co	ov-2
 Performed survival analysis and a spline predictive analysis on the data Estimating the treatment effect in randomized trials with correlated time-to-event outcomes 	2020
Simulated and compared three analysis methods for cluster randomized clinical trials	2020
LOFT-HF sample size re-estimation	2020
Re-estimated sample size for the LOFT-HF trial using blinded aggregate data	_0_0
A phase I/II study of E7389 Halichondrin B analog in metastatic urothelial tract cancer and renal insuffic	iency 2019
 Produced Kaplan-Meier plots, response and toxicity tables, and baseline statistics for DSMC report 	ort
 Analyzed data using multivariate Cox regression for progression-free and overall survival 	
A simulation evaluation of the effectiveness and usability of the 3+3 design for phase I clinical trials	2019
• Compared the 3+3 algorithm for phase I RCTs with more sophisticated methods through simulations of the second se	ion
Work Experience	
Exploring correlation between surrogate endpoints and overall survival in cancer trials	2023
 Compared several correlation coefficients to determine validity of surrogate endpoints for overal. 	l survival
• Ran models stratified by indication and treatment type to quantify correlated relationship further	
Vaccine hesitancy among Latinx adults - a cluster-randomized crossover trial	2023
• Ran multiple-period cluster-randomized crossover trial to test the effectiveness of motivational interviewing and	
behavioral health services on COVID-19 vaccine uptake among Latinx adults	2019
 Expanding access to home-based palliative care: a randomized controlled trial protocol Initiated and monitored REDCap database to collect data for the trial 	2018
 Summarized demographics, ineligibility criteria, and patient concerns to present to funding agence 	siac
	les .
Teaching Experience	
Teaching Assistant • Applied Survival Analysis (BST223)	2021-2023
 Intro to Data Science (BST260), Survival Methods in Clinical Research (BST224) 	2021-2023
Biostatistics Consulting Center	2020-2022
Consulted clients on study design, analysis planning, and programming	2021 2022
StatStart	2021-2023
• Taught R programming and basic statistics to high school students through a summer project	