Jonathan Luu

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Education

Education	
Harvard University, Graduate School of Arts and Sciences PhD, Biostatistics	Boston, MA May 2024
University of Cartham California Vacle Cale at of Madiaina	I as Amaslas CA
University of Southern California, Keck School of Medicine MS, Biostatistics	Los Angeles, CA May 2019
University of Southern California, Viterbi School of Engineering	Los Angeles, CA
BS, Computer Science & Computer Engineering	May 2017
D. LE.	
Research Experience	2023
Expanding the two-part model for clustered semi-continuous data	
• Developed Bayesian model to efficiently analyze cost and healthcare utilization data in nursing	_
• Applied model and metrics to Medicare data consisting of 20 million nursing home residents	2023
 Vaccine hesitancy among Latinx adults - a cluster-randomized crossover trial Ran multiple-period cluster-randomized crossover trial to test the effectiveness of motivation 	
 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 	
Addressing incomplete and missing electronic health records data in implementation science	2022
 Characterized and quantified missing data in EHR databases maintained by community health 	
HaSET program: Analyzing stunting of newborns in Ethiopia	2022
 Analyzed data with significant measurement error to approximate prevalence of stunting in E 	
Duration of viral shedding and culture positivity with post-vaccination breakthrough delta variant inf	
 Collected viral load and culture samples from MGH employees who tested positive for SARS 	
 Performed survival analysis and a spline predictive analysis on the data 	3-C0 V-2
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	2020
A phase I/II study of E7389 Halichondrin B analog in metastatic urothelial tract cancer and renal insu	ufficiency 2019
 Produced Kaplan-Meier plots, response and toxicity tables, and baseline statistics for DSMC 	<u>-</u>
 Analyzed data using multivariate Cox regression for progression-free and overall survival 	report
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 similar to the state of	
Expanding access to home-based palliative care: a randomized controlled trial protocol	2018
Initiated and monitored REDCap database to collect data for the trial	2010
 Summarized demographics, ineligibility criteria, and patient concerns to present to funding ag 	gencies
Deep-web polar insights search engine	2016
Assembled search engine that crawled the deep web for polar-related research data	2010
Teaching Experience	
Teaching Assistant	2021 2022
Applied Survival Analysis (BST223) Letter to Parts Science (BST260)	2021-2023
Intro to Data Science (BST260) Service I Methods in Clinical Brownsk (BST224)	2021-2022
Survival Methods in Clinical Research (BST224) Biostotistica Consulting Conton	2022
Biostatistics Consulting Center	2021-2022
 Consulted clients on study design, analysis planning, and programming StatStart 	2021 2022
	2021-2023
Taught R programming and basic statistics to high school students Daysland computational and problem solving skills by guiding students through a project.	

Skills

Developed computational and problem-solving skills by guiding students through a project

Programming (from most proficient to least): C++, Java, R, Python, SAS, HTML/CSS, Stata, C, C#, Ruby, Julia, Stan **Software:** Microsoft Office, Adobe Suite, AutoHotkey, Terminal, Linux, Bootcamp, Git/GitHub