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	2023		
• Developed Bayesian model to efficiently analyze cost and healthcare utilization data in nursing	homes		
 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 or 	enters		
HaSET program: Analyzing stunting of newborns in Ethiopia	2022		
 Analyzed data with significant measurement error to approximate prevalence of stunting in Ethi 	opia		
Duration of viral shedding and culture positivity with post-vaccination breakthrough delta variant infections			
 Collected viral load and culture samples from MGH employees who tested positive for SARS-C 	CoV-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 			
LOFT-HF sample size re-estimation	2020		
 Re-estimated sample size for the LOFT-HF trial using blinded aggregate data 			
A phase I/II study of E7389 Halichondrin B analog in metastatic urothelial tract cancer and renal insuffi			
 Produced Kaplan-Meier plots, response and toxicity tables, and baseline statistics for DSMC rep 	port		
Analyzed data using multivariate Cox regression for progression-free and overall survival	2019		
A simulation evaluation of the effectiveness and usability of the 3+3 design for phase I clinical trials			
 Compared the 3+3 algorithm for phase I RCTs with more sophisticated methods through simulation 			
Work Experience			
Intern: Bristol Myers Squibb	2023		
 Explored correlation between surrogate endpoints and overall survival in cancer trials 			
 Ran models stratified by indication and treatment type to quantify correlated relationship further 			
Research Assistant: Boston College			
• Ran multiple-period cluster-randomized crossover trial to test the effectiveness of motivational in	interviewing and		
behavioral health services on COVID-19 vaccine uptake among Latinx adults			
Research Assistant: Enguidanos Labs	2018		
 Monitored REDCap database to collect data for a palliative care trial comparing home-based vs. 	. hospital-based		
palliative care			
 Presented demographics, ineligibility criteria, and patient concerns to funding agencies 			
Teaching Experience			
Teaching Assistant			
Applied Survival Analysis (BST223)	2021-2023		
 Intro to Data Science (BST260), Survival Methods in Clinical Research (BST224) 			
Biostatistics Consulting Center			
 Consulted clients on study design, analysis planning, and programming 			
StatStart	2021-2023		
• Taught R programming and basic statistics to high school students through a summer project			

Skills