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	2022
 Developed Bayesian model to efficiently analyze cost and healthcare utilization data in nursing ho Applied model and metrics to Medicare data consisting of 20 million nursing home residents 	mes
Addressing incomplete and missing electronic health records data in implementation science	2022
 Characterized and quantified missing data in EHR databases maintained by community health cent HaSET program: Analyzing stunting of newborns in Ethiopia 	2022
 Analyzed data with significant measurement error to approximate prevalence of stunting in Ethiop Duration of viral shedding and culture positivity with post-vaccination breakthrough delta variant infection Collected viral load and culture samples from MGH employees who tested positive for SARS-CoV 	ns 2021
 Performed survival analysis and a spline predictive analysis on the data Estimating the treatment effect in randomized trials with correlated time-to-event outcomes 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 A phase I/II study of E7389 Halichondrin B analog in metastatic urothelial tract cancer and renal insufficie 	
 Produced Kaplan-Meier plots, response and toxicity tables, and baseline statistics for DSMC report 	
 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 simulatio	
Expanding access to home-based palliative care: a randomized controlled trial protocol	2018
 Initiated and monitored REDCap database to collect data for the trial 	
 Summarized demographics, ineligibility criteria, and patient concerns to present to funding agencies 	
Deep-web polar insights search engine	2016
Assembled search engine that crawled the deep web for polar-related research data	
• Built branded website with inbuilt data visualization capabilities using Banana and D3.js libraries	
Teaching Experience	
Teaching Assistant	
• Applied Survival Analysis (BST223)	2021-2022
• Intro to Data Science (BST260)	2021-2022
Survival Methods in Clinical Research (BST224)	2022
Biostatistics Consulting Center	2021-2022
• Consulted clients on study design, analysis planning, and programming	2021 2022
StatStart Tought P programming and basis statistics to high school students	2021-2022
Taught R programming and basic statistics to high school students Developed computational and problem solving skills by suiding students through a project.	
 Developed computational and problem-solving skills by guiding students through a project 	

Skills

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

Typing WPM: 175

Other: Git/GitHub, LaTex, Cadence, IT experience