Jonathan Luu

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Education

Harvard University, Graduate School of Arts and Sciences PhD, Biostatistics

University of Southern California, Keck School of Medicine MS, Biostatistics

University of Southern California, Viterbi School of Engineering BS, Computer Science & Computer Engineering

Work Experience

Work Experience	
Intern: Bristol Myers Squibb	2023
 Explored relationship between surrogate endpoints (PFS/ORR) and overall survival in cancer trials 	
 Compared correlation coefficients (Pearson, Spearman, Kendall, Harrell) to verify Prentice criteria of 	
surrogate endpoints to justify their use in cancer trials, stratified by treatment and indication type	
Research Assistant: Boston College	2023
 Designed an analysis plan for a multiple-period cluster-randomized crossover trial to test the effectiveness of 	2023
motivational interviewing on COVID-19 and influenza vaccine uptake	
mouvational interviewing on 60 v1D-17 and influenza vaccine uptake	
Teaching Assistant: Harvard T.H. Chan School of Public Health)20-2023
 Served as TA for Applied Survival Analysis, Intro to Data Science, and Survival Methods in Clinical Research 	
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Biostatistics Consulting Center / StatStart 20)21-2022
 Consulted students on study design, analysis planning, and programming for research projects and grants 	
 Taught R programming and basic statistics to high school students through lecture, lab, and a group project 	
	2040
Research Assistant: Enguidanos Labs	2018
• Collected and presented data to funding agencies for a clinical trial comparing home-based to hospital-based	
palliative care	
Research Experience	
Comparing methods for multiple-period cluster-randomized crossover trials	2024
 Compared characteristics of marginal and mixed effects models under small sample conditions 	
Measuring performance for costs and healthcare utilization in nursing	2024
 Proposed novel metrics for comparing hospitalization costs and profiling nursing homes 	
Hierarchical models for longitudinal clustered semi-continuous data subject to mortality	2023
 Developed a discrete-time model to efficiently analyze cost data in nursing homes 	
Determinants of assist risk assessing and seasons assists in assessments health assets	2022
Determinants of social risk screening and response equity in community health centers Characterized principle data in electronic health regards for Caring Health Center	2022
 Characterized missing data in electronic health records for Caring Health Center 	
Prevalence, incidence, and reversal pattern of childhood stunting from birth to age 2 years in Ethiopia	2022
 Analyzed newborn data with measurement error to determine relationship between malnutrition and stunting 	
Duration of viral shedding and culture positivity with post-vaccination breakthrough delta variant infections	2021
 Performed survival analysis on COVID-19 viral load/culture data to determine optimal quarantine period 	
A phase I/II study of E7389 Halichondrin B analog in metastatic urothelial tract cancer and renal insufficiency	2019
 Generated Kaplan-Meier plots, toxicity tables, and Cox regression HRs for PFS/OS to report to DSMC 	
	2040
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 simulation 	