Jonathan Luu

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Education

Education Education	
Harvard University, Graduate School of Arts and Sciences PhD, Biostatistics	Boston, MA August 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
Work Experience	
Intern: Bristol Myers Squibb 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	2023 of
Research Assistant: Boston College Designed an analysis plan for a multiple-period cluster-randomized crossover trial to test the effective motivational interviewing on COVID-19 and influenza vaccine uptake	2023 veness of
Teaching Assistant: Harvard T.H. Chan School of Public Health Served as TA for Applied Survival Analysis, Intro to Data Science, and Survival Methods in Clinical	2020-2023 Research
Biostatistics Consulting Center / StatStart Consulted students on study design, analysis planning, and programming for research projects and group Taught R programming and basic statistics to high school students through lecture, lab, and a group	•
Research Assistant: Enguidanos Labs Collected and presented data to funding agencies for a clinical trial comparing home-based to hospit palliative care	2018 tal-based
Research Experience	
Comparing methods for multiple-period cluster-randomized crossover trials Compared characteristics of marginal and mixed effects models under small sample conditions	2024
Measuring performance for costs and healthcare utilization in nursing Proposed novel metrics for comparing hospitalization costs and profiling nursing homes	2024
Hierarchical models for longitudinal clustered semi-continuous data subject to mortality Developed a discrete-time model to efficiently analyze cost data in nursing homes	2023
Determinants of social risk screening and response equity in community health centers Characterized missing data in electronic health records for Caring Health Center	2022
Prevalence, incidence, and reversal pattern of childhood stunting from birth to age 2 years in Ethiopia Analyzed newborn data with measurement error to determine relationship between malnutrition and	2022 d stunting
Duration of viral shedding and culture positivity with post-vaccination breakthrough delta variant infections Performed survival analysis on COVID-19 viral load/culture data to determine optimal quarantine process.	
A phase I/II study of E7389 Halichondrin B analog in metastatic urothelial tract cancer and renal insufficient. Generated Kaplan-Meier plots, toxicity tables, and Cox regression HRs for PFS/OS to report to DS	•
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	2019 on