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 University of Southern California, Viterbi School of Engineering Espanding the two-part model for clustered semi-continuous data Boston, MA May 2024 Los Angeles, CA May 2019 Research Experience Expanding the two-part model for clustered semi-continuous data 2023
University of Southern California, Keck School of Medicine MS, Biostatistics May 2019 University of Southern California, Viterbi School of Engineering BS, Computer Science & Computer Engineering May 2017 Research Experience
MS, Biostatistics University of Southern California, Viterbi School of Engineering BS, Computer Science & Computer Engineering Research Experience May 2019 Los Angeles, CA May 2017
MS, Biostatistics University of Southern California, Viterbi School of Engineering BS, Computer Science & Computer Engineering Research Experience May 2019 May 2017
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Research Experience
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Expanding the two-part model for clustered semi-continuous data
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 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
Vaccine hesitancy among Latinx adults - a cluster-randomized crossover trial 2023
 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 centers
HaSET program: Analyzing stunting of newborns in Ethiopia 2022
 Analyzed data with significant measurement error to approximate prevalence of stunting in Ethiopia
Duration of viral shedding and culture positivity with post-vaccination breakthrough delta variant infections 2021
 Collected viral load and culture samples from MGH employees who tested positive for SARS-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 insufficiency 2019
 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
 Compared the 3+3 algorithm for phase I RCTs with more sophisticated methods through simulation
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
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
StatStart 2021-2022
 Taught R programming and basic statistics to high school students

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