Jonathan Luu

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Education

| Harvard University, Graduate School of Arts and Sciences PhD, Biostatistics | Boston, MA May 2024 |
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| University of Southern California, Keck School of Medicine MS, Biostatistics | os Angeles, CA May 2019 |
| University of Southern California, Viterbi School of Engineering BS, Computer Science & Computer Engineering | os 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 hom | ies |
| Created joint metrics to effectively compare nursing homes | |
| Applied model and metrics to Medicare data consisting of 20 million nursing home residents | |
| 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-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 | |
| • Ran simulation sensitivity analyses for type-I error using sample size, power, accrual rate, and follow | _ |
| A phase I/II study of E7389 Halichondrin B analog in metastatic urothelial tract cancer and renal insufficient | cy 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 | 2019 |
| • 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 | 2016 |
| Summarized demographics, ineligibility criteria, and patient concerns to present to funding agencies | 1 |
| Deep-web polar insights search engine | 2016 |
| Assembled search engine that crawled the deep web for polar-related research data | 2010 |
| 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 | |
| Assisted with research projects, grant submissions, and student dissertations | |
| StatStart | 2021-2022 |
| Taught R programming and basic statistics to high school students | |
| 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