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

Principal Biostatistician, Regeneron Pharmaceuticals   2024
Global Development, Inflammation and Immunology

Intern, Bristol Myers Squibb   2023
Early Development, Oncology
- Explored relationship between surrogate endpoints (PFS/ORR) and overall survival in cancer trials
- Compared correlation coefficients 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 multi-period cluster-randomized crossover trial to test the effectiveness of motivational interviewing on COVID-19 vaccine uptake

Teaching Assistant, Harvard T.H. Chan School of Public Health   2020-2023
- Served as TA for Applied Survival Analysis, Intro to Data Science, and Survival Methods in Clinical Research

Consultant, Harvard Biostatistics Consulting Center   2021-2022
- Advised Harvard students and post-docs on study design, analysis planning, and programming
- Taught R and statistics to high school students through lecture, lab, and group projects

Research Assistant, USC Enguidanos Labs   2018-2019
- Cleaned and analyzed data for RCT comparing home-based vs. hospital-based palliative care

Research Experience

Comparing methods for multiple-period cluster-randomized crossover trials   2024
- Compared characteristics of marginal and mixed effects models for CRTs 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 Bayesian discrete-time model to efficiently analyze cost data in nursing homes

Determinants of social risk screening and response equity in community health centers   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 simulation evaluation of the effectiveness and usability of the 3+3 design for phase I clinical trials   2019
- Compared 3+3 algorithm for phase I RCTs with more sophisticated methods through simulation