github.com/nicksun1

- Nicholas Sun -

nicksun1.github.io

Updated 05/2021 **Q** ns2874@columbia.edu **□**

US/Canada Dual Citizen

in linkedin.com/in/nicholas-sun-ln

(573) 639-2388 **2**

Summary

Profile Statistician and data scientist with extensive experience performing analysis on massive,

complex datasets. Interested in development of interpretable and robust tools backed by superior

quantitative operating characteristics.

Areas of Expertise • Statistical methodology development, large-scale simulation studies, predictive modeling,

development of visualization tools. Clinical trials and biomarker studies.

Frequently used · R, Python, SAS, Spotfire, SQL.

Education

M.S. Biostatistics, Columbia University Mailman School of Public Health
B.S. Mechanical Engineering, Columbia University
New York, NY
August 2016-2018
August 2012-2016

Professional Experience

Eli Lilly and Company

Senior Statistician, Lilly Research Laboratories

July 2018-Present *Indianapolis*, *IN*

- · Lead team to create cross-therapeutic automated visualization tools for adverse events reporting. Utilization increases reliability and decreases phase I dose-escalation review timeline five-fold. Recipient of Lilly Innovator Award 2020.
- · Propose novel biomarker prediction models to analyze data from phase I trials. Methodology adopted by various groups working across multiple drug compounds after determination of positive value.
- · Develop multiple drug dose-response models that inform stop-and-go strategies for dose-finding trials. Models implemented in ongoing trials. Rigorous simulation study and methodology presented in internal technical report
- · Manage production, maintenance, and review of evidence packages submitted to FDA for drug approval.
- · Create versatile R functions for creation of highly informative dual y-axis graphs, reflecting new closed loop insulin pump patient data over time. Used by pharmacology team for quick assessment of pump efficacy.
- · Build and assess data-driven risk matrix of COVID-19 effect on trial endpoints to inform company-wide decision making process on continuation, viability and pivot direction of all new and on-going clinical trials.
- · Head original Lilly initiative for handling and dissemination of confidential study data for public use. Introduce new pipeline for production of company-wide de-identified datasets.
- · Contribute to Eli Lilly publications in various academic journals.

National Institute of Health

May-August 2017 Bethesda, MD

Statistician, Biostatistics Branch

- · Developed new composite test for performing inference on difference in means with zero-inflated data.
- · Authored report recommending new nutritional guidelines based on reanalysis of childhood nutrition dataset.

Software

- · PowerCompareZero R package that includes various functions to compare, test, and run new inference procedures or analysis of semi-continuous data.
- · InsulinSensitivity R and SAS project evaluating best use case for common measure of insulin sensitivity accounting for available information and efficiency and depth of desired conclusion.

Skills and Interests

- · Language Proficiency: Mandarin-Full Professional; Spanish-Intermediate
- · Community Involvement: Lilly service volunteer Boy Scouts of America (Crossroads of America Council).
- · Interests: snowboarding, hiking, ultimate frisbee, fantasy football, online gaming.