Darren Lin

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Education

University of California, Los Angeles 2024 – Present
PhD, Biostatistics
Advisor: Dr. Falco J. Bargagli-Stoffi

Johns Hopkins University 2022 – 2024
ScM, Biostatistics
Advisor: Dr. Ni Zhao
Thesis: Overview of Statistical Methods for T-Cell Receptor Sequencing Analysis

Johns Hopkins University 2018 – 2022
BS, Double Major: Applied Mathematics and Statistics; Public Health Studies
Minor: Psychological and Brain Sciences

Research

Graduate Research Assistant June 2025 – Present
University of California, Los Angeles
Supervisor: Dr. Falco J. Bargagli-Stoffi

- Develop and assess causal inference frameworks for quantifying treatment effect heterogeneity, using simulation studies and applied analyses to evaluate subgroup identification and individualized treatment strategies
- Investigate the comparative performance of high-benefit and high-risk causal modeling approaches for precision medicine, focusing on estimation accuracy, clinical interpretability, and implications for treatment decision-making

Graduate Research Assistant Jan 2023 – Oct 2024
Johns Hopkins University
Supervisor: Dr. Ni Zhao

- Benchmarked and summarized T-cell receptor analysis tools; evaluated diversity, single-cell analysis, visualizations, compatibility, and runtime
- Analyzed longitudinal associations between autoantibodies, diabetes medication, and C-peptide measurements using longitudinal and survival models, and developed an R Shiny app to dynamically predict biomarker trajectories and cardiovascular outcomes.

BDSI Summer Research Intern (Big Data Summer Institute) June 2021 – Aug 2021
University of Michigan

- Conducted an NIH-funded project with Dr. Xiaoquan Wen; assessed GWAS replicability across ethnic groups using various meta-analysis methods
- Analyzed vaccine sentiment on Twitter using sentiment analysis and Monocle3 toolkit under Dr. Johann Gagnon-Bartsch as part of the Big Data Summer Institute

B.I.G. Summer Research Intern (Bruins-in-Genomics Program) June 2020 – Aug 2020
University of California, Los Angeles
Supervisor: Dr. Jae Hoon Sul

- Analyzed whole-genome sequencing by implementing Bayesian framework to identify risk factor genes for congenital heart disease

Research Intern May 2019 – May 2020
Johns Hopkins University
Supervisor: Dr. Ryan Vandrey

- Supported marijuana behavioral pharmacology trials, including data entry and participant recruitment

Industry Experience

Graduate Research Intern April 2025 – Present
Amgen Inc.
Supervisor: Matt Austin

- Develop a statistical scoring framework to evaluate clinical site performance by summarizing query frequency and resolution time for each site, helping study teams identify underperforming sites and prioritize follow-up
- Implement and compare advanced count-duration models (negative binomial, hurdle-lognormal, bivariate hurdle-lognormal) to model query counts and resolution times in support of site ranking and performance monitoring

Research Intern Oct 2020 – July 2023
CHADIS, Inc.
Supervisor: Dr. Dawn Lewis

- Outlined and prepared adolescent-health questionnaires for the telehealth web-based platform CHADIS (Comprehensive Health and Decision Information System)

Teaching

Teaching Assistant Sept 2024 – June 2025
Department of Biostatistics, University of California, Los Angeles

- **BIOSTAT 100: Introduction to Biostatistics** – Led lab sessions and hosted office hours for undergraduate students, covering key biostatistical concepts and use of statistical software in R
- **BIOSTAT 201A/B: Introduction to Biostatistics** – Facilitated lab sections and provided academic support for graduate students in a two-course sequence emphasizing regression modeling and statistical inference on public health data

Teaching Assistant Aug 2023 – May 2024
Department of Biostatistics, Johns Hopkins University

- **AS.280.345: Public Health Biostatistics** – Directed discussion sections, guiding approximately 50 undergraduate students through topics encompassing epidemiology and statistics; graded assignments, quizzes, and exams
- **PH.140.623/PH.140.624: Statistical Methods in Public Health III/IV** – Supported graduate students through office hours; graded quizzes and homework

Community Service and Leadership

Biostatistics Student Association Vice President (Sept 2025 – Present) Jan 2025 – Present
Department of Biostatistics, University of California, Los Angeles

- Lead the department's graduate mentorship program, coordinating mentor-mentee matching and quarterly check-ins to support students' academic and career development
- Plan and coordinate professional development events – including "Lunch & Learn" research talks – for biostatistics graduate students, handling speaker outreach and event logistics.

Abstracts

[1] S. J. Pilla, W. C. Knowler, A. Balasubramanyam, C. S. Hampe, S. Pietropaolo, D. Lin, A. M. Anderson, N. Zhao, Å. Lernmark, N. N. Mathioudakis, et al. "1993-LB: Subgroups of Type 2 Diabetes (T2D) by Clinical Features and Islet Autoimmunity". In: *Diabetes* 73.Supplement_1 (2024).

Presentations

[1] J. Forschmiedt, T. Mondal, J. Woerner, and D. Lin. *Improving tweet topic modeling with vaccine acceptance information and sentiment analysis*. Oral presentation. University of Michigan Big Data Summer Institute Symposium, online. `http://bigdatasummerinst.sph.umich.edu/wiki/index.php/Main_Page#Symposium`. July 2021.

[2] D. Lin and J. H. Sul. *Analysis of Risk Factor Genes for Congenital Heart Disease*. Oral presentation. University of California, Los Angeles Bruins-in-Genomics Summer Research Symposium, online. `https://qcb.ucla.edu/big-summer/big2020/#toggle-id-35`. Aug. 2020.