# **Darren** Lin

Email: darresl1@ucla.edu

# Education

**Doctor of Philosophy in Biostatistics** 

September 2024 – Present

Department of Biostatistics, University of California, Los Angeles

**Master of Science in Biostatistics** 

**August 2022 – May 2024** 

Department of Biostatistics, Johns Hopkins University

Advisor: Dr. Ni Zhao

August 2018 – May 2022

**Bachelor of Science** 

Johns Hopkins University

• Majors: Applied Mathematics and Statistics, Public Health Studies

• Minor: Psychological and Brain Sciences

# Research

#### **Research Assistant**

January 2023 – October 2024

Department of Biostatistics, Johns Hopkins University

- Thesis: Overview of Statistical Methods for T-Cell Receptor Sequencing Analysis
  - o Benchmarked and summarized T-cell receptor analysis tools; evaluated diversity, single-cell analysis, visualizations, compatibility, and runtime
- Association of Biomarker Data with Diabetes and Cardiovascular Disease Outcomes
  - Analyzed longitudinal associations between autoantibodies, diabetes medication, and C-peptide measurements; implemented longitudinal and survival models
  - Developed an R Shiny to dynamically predict biomarker trajectories and cardiovascular outcomes

# **Research Intern**

**October 2020 – July 2023** 

CHADIS, Inc.

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

# **Summer Research Intern**

**June 2021 – August 2021** 

Department of Biostatistics, 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

# **Summer Research Intern**

**June 2020 – August 2020** 

Jae Hoon Sul Lab, University of California, Los Angeles

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

#### **Research Intern**

May 2019 – May 2020

Ryan Vandrey Lab, Behavioral Pharmacological Research Unit, Johns Hopkins University

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

# Teaching

# **Teaching Assistant**

Department of Biostatistics, University of California, Los Angeles September 2024 – Present

- BIOSTAT 201A/B: Introduction to Biostatistics
  - Lead lab sessions and host office hours for 30 graduate students, covering key biostatistical concepts

Department of Biostatistics, Johns Hopkins University

August 2023 - May 2024

- 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
  - o Supported graduate students through office hours; graded quizzes and homework

# **Abstracts**

Pilla, S. J., Knowler, W. C., Balasubramanyam, A., Hampe, C. S., Pietropaolo, S., Lin, D., Anderson, A. M., Zhao, N., Lernmark, Å., Mathioudakis, N. N., Bancks, M., Clark, J., & Maruthur, N. M. (2024). 1993-LB: Subgroups of Type 2 Diabetes (T2D) by Clinical Features and Islet Autoimmunity. Diabetes, 73(Supplement\_1), 1993-LB. <a href="https://doi.org/10.2337/db24-1993-LB">https://doi.org/10.2337/db24-1993-LB</a>

# **Presentations**

- Lin, D., Forschmiedt, J., Mondal, T., & Woerner J. (2021, July 29). *Improving tweet topic modeling with vaccine acceptance information and sentiment analysis* [Oral presentation]. University of Michigan Big Data Summer Institute Symposium, online. <a href="http://bigdatasummerinst.sph.umich.edu/wiki/index.php/Main">http://bigdatasummerinst.sph.umich.edu/wiki/index.php/Main</a> Page#Symposium
- Lin, D., & Sul, J.H., (2020, August 14). *Analysis of Risk Factor Genes for Congenital Heart Disease* [Oral presentation]. University of California, Los Angeles Bruins-in-Genomics Summer Research Symposium, online. <a href="https://qcb.ucla.edu/big-summer/big2020/#toggle-id-35">https://qcb.ucla.edu/big-summer/big2020/#toggle-id-35</a>

# Skills

**Programming:** R, SAS, Python, BASH, SQL, MATLAB **Software:** SLURM, Markdown, LaTeX, Shiny, Git, GitHub