Harrison H Li
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Education

Ph. D. in Statistics, June 2025 (expected) – Stanford University

A. B. in Statistics and Mathematics, May 2018 – Harvard University (*summa cum laude* with Highest Honors)

- Thesis: Generalized linear models for post-processing of multi-model ensemble precipitation forecasts. Supervised by Prof. Joseph Blitzstein.

Journal articles and preprints

Li, H., & Owen, A. B. (2022). A general characterization of optimal tie-breaker designs. To appear in the *Annals of Statistics*. [preprint]

Lemhadri, I., **Li, H.,** & Hastie, T. (2022). RbX: Region-based explanations of prediction models. [preprint]

Cronin, T. W., **Li, H.**, & Tziperman, E. (2017). Suppression of Arctic air formation with climate warming: investigation with a two-dimensional cloud-resolving model. *Journal of the Atmospheric Sciences*, *74*(9), 2717-2736.

Li, H., & Colle, B. A. (2016). Future changes in convective storm days over the northeastern United States using linear discriminant analysis applied to CMIP5 predictions. *Journal of Climate*, *29*(12), 4327-4345.

Li, H., & Colle, B. A. (2014). Multidecadal changes in the frequency and ambient conditions of warm season convective storms over the northeastern United States. *Journal of Climate*, *27*(19), 7285-7300.

Selected talks and presentations

Joint Statistical Meetings — August 2023, Toronto, ON, Canada
Optimal batch adaptive experiment design for double machine learning

American Causal Inference Conference (poster) — May 2023, Austin, TX
Adaptive experiment design for efficient semiparametric estimation in the partially linear model

Industrial Affiliates Annual Conference — November 2022, Stanford, CA
Optimality in tie-breaker designs and applications to evaluating social programs

Online Causal Inference Seminar — May 2022, remote
A general characterization of optimal tie-breaker designs [slides][video]

2022 California Econometrics Conference (poster session) — May 2022, Stanford, CA
A general characterization of optimal tie-breaker designs

94th Annual Meeting of the American Meteorological Society Feb. 2014, Atlanta, GA
Multidecadal changes in the frequency and ambient conditions of warm season convective storms over the northeastern United States

Teaching

Graduate Teaching Assistant, Stanford University

- Stats 116 (Theory of Probability), ***Instructor***, Summer 2023
- Stats 32 (Introduction to R for Undergraduates), ***Instructor***, Spring 2022, Spring 2023
    - Sole instructor for introductory R course for undergraduate students from non-engineering backgrounds. Course content covered basics of R Tidyverse for data wrangling, visualization, and analysis. Restructured course with original content for lecture slides and weekly homework assignments.
- Stats 200 (Introduction to Statistical Inference), *TA*, Winter 2022, Autumn 2022
- Stats 300a (Theory of Statistics I), *TA*, Autumn 2021
- Stats 60 (Introduction to Statistical Methods: Precalculus), *TA*, Spring 2021
- Stats 216 (Introduction to Statistical Learning), *TA*, Winter 2021

Undergraduate Course Assistant, Harvard University

- Stat 111 (Introduction to Statistical Inference), Spring 2018
- Stat 110 (Introduction to Probability), Fall 2017
- Stat 171 (Introduction to Stochastic Processes), Spring 2017
- Stat 110 (Introduction to Probability), Fall 2016
- Math 21b (Linear Algebra and Differential Equations), Spring 2016
- Math 21a (Multivariable Calculus), Fall 2015

Honors and awards

Student and Early-Career Travel Award (Joint Statistical Meetings), 2023
Student Travel Award for Joint Statistical Meetings (San Francisco Bay Area Chapter of the American Statistical Association), 2023
Stanford Interdisciplinary Graduate Fellowship, 2023
Stanford University Statistics Department Teaching Assistant Awards, 2022
NSF Graduate Research Fellowships Program – Honorable Mention, 2021
Phi Beta Kappa Senior 48, 2017
Derek Bok Q Awards Certificate of Distinction, 2016, 2017
Program for Research in Science in Engineering (PRISE) Fellow, 2015
Detur Book Prize, 2015
Intel Science Talent Search Semifinalist, 2014
Siemens Science and Technology Competition Semifinalist, 2014
Davidson Fellow, 2013

Non-academic employment

Independent Contractor. The Policy Lab, Brown University. Remote. Jul. 2023 –

Data Science Intern. YouTube, LLC. San Bruno, CA. Jun. 2022 – Sep. 2022

Quantitative Trader. Five Rings, LLC. New York, NY. Aug. 2018 – Jul. 2020

Quantitative Trading Intern. Susquehanna International Group, LLC. Bala Cynwyd, PA. Jun. 2017 – Aug. 2017

Trader Intern. IMC Financial Markets. Chicago, IL. Jun. 2016 – Aug. 2016