

# Hane Lee (they/them)

hane.lee@columbia.edu

[www.hanelee.com](http://www.hanelee.com)

(+1) 857-500-3241

## EDUCATION

---

### **Columbia University**

PhD in Statistics

Committee: Michael Sobel, Zhiliang Ying, Naoki Egami

New York, NY

2019 – Present

### **Massachusetts Institute of Technology**

MS in Media Arts and Sciences, MIT Media Lab, Opera of the Future

BS in Electrical Engineering, minor in Music

Cambridge, MA

2017 – 2019

2013 – 2017

## PREPRINTS & WORKING PAPERS

---

*Preprint.* “The Wasserstein Bipolarization Index: A New Measure of Public Opinion Polarization, with an Application to Cross-Country Attitudes toward COVID-19 Vaccination Mandates” with Michael Sobel.

*Working paper.* “A Fused Ideological and Social Model of Roll Call Votes” with Andrew Davison and Zhiliang Ying.

*Working paper.* “Ideological Polarization without Issue Polarization?”

## PUBLICATIONS

---

Chris Andrade, Jonathan Auerbach, Icaro Bacelar, Hane Lee, Angela Tan, Mariana Vazquez, and Owen Ward (2023). “Does it pay to park in front of a fire hydrant?”. *Significance* 20(1), pp. 28–30.

## CONFERENCE PRESENTATIONS

---

2024 Society for Political Methodology Annual Conference (paper)

2023 Society for Political Methodology Annual Conference (poster)

2022 Minghui Yu Memorial Conference

## TEACHING EXPERIENCE

---

### Columbia University

#### Instructor

Calculus-based Introduction to Statistics

Summer 2024

#### Teaching Assistant

##### Graduate

Probability Theory

Fall 2020, Spring 2021, Fall 2021

Statistical Inference

Fall 2023

Accelerated Probability Theory/Statistical Inference

Fall 2022

Statistical Machine Learning

Spring 2022

Linear Regression Models

Spring 2023

Bayesian Statistics

Summer 2023

##### Undergraduate

Introduction to Statistics

Spring 2020

Introduction to Statistical Reasoning

Fall 2019

## SERVICE

---

PhD Student Representative, Columbia Statistics Department

2021 – 2022

Minghui Yu Memorial Conference organizer

2022

Diversity, Equity, and Inclusion Committee, Columbia Statistics Department

2020 – 2023

Department Representative, Columbia GSAS Student Council

2020 – 2021

## RESEARCH & WORK EXPERIENCE

---

Research Assistant, Prof. Tod Machover, MIT Media Lab

2017-2019

Undergraduate Research Assistant, Prof. George Verghese, MIT RLE

2016-2017

Intern, Ion Beam Applications (IBA) & Université Catholique de Louvain

2015

Undergraduate Research Assistant, Dr. Stefanie Shattuck-Hufnagel, MIT RLE

2014

## SKILLS

---

**Programming:** *proficient* Python, R *practical* MATLAB, javascript, C++

**Languages:** *native* English, Korean