

# Karissa Huang

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Berkeley, CA | krhuang@berkeley.edu | (216) 225-2391

## EDUCATION

### UC Berkeley

*Ph.D.*, Department of Statistics  
Fall 2026 (expected)  
GPA: 3.96

### Harvard College

*A.B.*, Statistics and Mathematics with High Honors  
May 2021  
GPA: 3.72

## RESEARCH INTERESTS

My research interests lie in the applications of networks and random graph theory to epidemiology and computer science.

## AWARDS

Outstanding Graduate Student Instructor Award, 2024  
NSF Graduate Research Fellowship, Grant No. DGE 2146752, 2021

## PREPRINTS & PUBLICATIONS

Christian Borgs, Karissa Huang, Geng Zhao  
*Travel Bans versus Social Distancing: A Mathematical Analysis*  
<https://arxiv.org/abs/2510.08895>

Urmisha Chatterjee, Karissa Huang, Ritabrata Karmakar, B. R. Vinay Kumar, Gábor Lugosi, Nandan Malhotra, Anirban Mandal, Maruf Alam Tarafdar  
*Detecting Weighted Hidden Cliques*  
<https://arxiv.org/abs/2506.21543>

Christian Borgs, Karissa Huang, Chris Ikeokwu  
*A Law of Large Numbers for the SIR Epidemic on the Stochastic Block Model*  
<https://arxiv.org/abs/2410.07097>.  
Under review at Annals of Applied Probability.

Karissa Huang, Zhichao Jiang, Kosuke Imai  
*RCT2: Designing and Analyzing Two-Stage Randomized Experiments*  
Available at CRAN.

## WORKING PAPERS

Yeganeh Alimohammadi, Christian Borgs, Jennifer Chayes, Karissa Huang  
*Encouraging Agreement, Losing Dissent: Minority Effects in Community Moderation of Social Media Platforms*

Philip Lee, Karissa Huang, Alejandro Schuler, Joseph Lewnard  
*Surrogate Modeling for Infectious Disease Dynamics using Machine Learning*

## INDUSTRY EXPERIENCE

**LinkedIn**, Applied Science Intern  
Project: LLM and GNN Embeddings for Prediction in the Context of Sales AI

**TEACHING****STAT 201B: Introduction to Statistics at an Advanced Level**

Graduate Student Instructor

Fall 2023, 2025

UC Berkeley

**MA Summer Prep: Probability**

Instructor

Fall 2022, 2023

UC Berkeley

**TALKS AND POSTERS**

INFORMS Applied Probability Session. *Travel Bans versus Social Distancing: A Mathematical Analysis*. Atlanta, GA, USA October 2025.

TTIC Summer Workshop on Collaborative Learning and Data Sharing. *Encouraging Agreement, Losing Dissent: Minority Effects in Community Moderation of Social Media Platforms*. Chicago, IL, USA August 2025.

EC GIC Spotlight Talk. *Travel Bans versus Social Distancing: A Mathematical Analysis*. Stanford, CA, USA July 2025.

BIRS-CMI Workshop on Mathematical Foundations of Network Models and their Applications. *A Law of Large Numbers for the SIR Epidemic on the Stochastic Block Model*. Chennai, India December 2024.

Bernoulli-IMS 11th World Congress in Probability and Statistics. *A Law of Large Numbers for the SIR Epidemic on the Stochastic Block Model*. Bochum, Germany August 2024.

PIMS-CRM Summer School in Probability. *A Law of Large Numbers for the SIR Epidemic on the Stochastic Block Model*. Montréal, Canada July 2024.

**SERVICE**

UC Berkeley Student Probability Seminar, Organizer (2023-2025)

Statistics Graduate Student Association (SGSA)

- Student Seminar Committee, Member (2023-2025)
- Fellowships Committee, Organizer (2022-2024)
- Service Committee, High School Outreach (2021-2023)