

# HIMANI VERMA

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## EDUCATION

University of California, Irvine, <i>Ph.D. in Economics</i>	Expected June 2030
The University of Texas at Austin, <i>B.A. in Economics with a minor in Applied Statistics</i>	August 2018 – May 2022
The University of Texas at Austin, <i>B.S. in Mathematics with a minor in Computer Science</i>	August 2018 – May 2022

## RESEARCH INTERESTS

Labor Economics, Applied Microeconomics, Applied Econometrics

## RESEARCH EXPERIENCE

<b>The University of Texas at Austin</b>	Austin, TX
<i>Undergraduate Honors Thesis in Economics, Department of Economics</i>	August 2021 – May 2022
<ul style="list-style-type: none"><li>Thesis Title: Time Use During the Pandemic: Differences from the Great Recession and Gender Gaps</li><li>Conducted comparative analyses of time reallocation across recession periods, with special focus on gender disparities using multiyear American Time Use Survey data processed through Stata and Python</li><li>Developed an instrumental variables model to examine reallocation of market hours to non-market activities such as job search, childcare, and household work</li></ul>	
<i>Economics Undergraduate Research Fellowship, Department of Economics</i>	June 2020 – May 2022
<ul style="list-style-type: none"><li>Supported doctoral research on applied econometrics topics such as model selection, machine learning, and structural modeling, and game theory, contributing to the dissertation Essays on Model Selection</li><li>Conducted Monte Carlo simulations to evaluate the accuracy of p-values in non-parametric model selection using Vuong (1989)'s test, comparing methods such as LASSO, ridge regression, and the method of sieves</li><li>Automated data collection with Python and SQL to build datasets and applied machine learning techniques to refine models and present insights visually</li></ul>	
<i>Directed Reading Program, Department of Mathematics</i>	August 2020 – May 2021
<ul style="list-style-type: none"><li>Authored papers on advanced topics in graph theory, including bipartite graph proofs and tree theorems</li><li>Delivered weekly presentations and technical reports under graduate mentorship, summarizing findings from assigned readings</li></ul>	
<b>Polymath Jr. Program</b>	Remote
<i>Researcher in cohort led by Dr. Johanna Franklin, Hofstra University</i>	June 2021 – August 2021
<ul style="list-style-type: none"><li>Collaborated on developing proofs in combinatorial game theory research, analyzing strategies for two-player abstract games</li><li>Utilized Python to implement the multi-minimax algorithm and simulate game outcomes to evaluate win rates and validate theoretical results</li></ul>	

## WORK EXPERIENCE

<b>The Brattle Group, Inc.</b>	San Francisco, CA
<i>Senior Research Analyst</i>	July 2022 – July 2025
<ul style="list-style-type: none"><li>Led econometric analyses in labor law litigation, developing synthetic control models in Stata to assess the impact of state labor reforms on employment trends</li><li>Conducted overcharge analysis in a price-fixing litigation using fixed effects regression to estimate damages in Stata and SQL, presenting results to technical and non-technical stakeholders</li><li>Designed epidemiological population forecasting models for mass tort cases, estimating incidence rates using econometric techniques and client claims data in R</li><li>Performed market share and competitiveness analyses for Requests for Information (RFIs) in an agricultural merger case, contributing to a successful decision by the European Commission</li><li>Managed large-scale data processing in Databricks with SQL, PySpark, and R for a major antitrust class action, producing comprehensive data summaries and visualizations</li><li>Delivered trainings to new analysts in R, Python, Stata, and Excel standardizing case workflows and enhancing team efficiency</li></ul>	

**Texas Institute for Discovery Education in Science**

Austin, TX

*Data Evaluation Fellow*

September 2021 – May 2022

- Provided statistical consulting services for institutional datasets to address challenges in student enrollment, diversity, and outcomes
- Created interactive dashboards in Python and Tableau to analyze medical school enrollments, supporting institutional decision-making
- Performed sentiment analysis and clustering on survey data, generating insights for diversity, equity, and inclusion (DEI) initiatives
- Coordinated and led a college-wide Datathon, mentoring teams on data analysis challenges and visualization techniques

**The Conference Board, Inc.**

New York, NY

*Research Intern*, Labor Markets Institute, Economy, Strategy & Finance Center

July 2021 – August 2021

- Automated data scraping workflows in Python, streamlining analysis of labor market trends and macroeconomic indicators
- Applied stepwise regression techniques to evaluate the pandemic's effects on employment, accounting for state demographics, vaccination rates, and government responses
- Designed Tableau dashboards to visualize trends in remote work and regional migration patterns, supporting firm-wide forecasting projects

**AWARDS AND HONORS**

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David Patterson Kieschnick Memorial Scholarship in Economics, UT Austin

July 2022

Special Honors in Economics, UT Austin

May 2022

Economics Undergraduate Research Fellowship, UT Austin

June 2020 – May 2022

University Honors, UT Austin

August 2018 – May 2022

**CONFERENCE PRESENTATIONS**

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Federal Reserve Bank of Dallas, 16th Annual Economics Scholars Program Conference

October 2022

**ADDITIONAL INFORMATION**

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**Programming Skills:** Python, R, Stata, SQL, SAS**Additional Technical Skills:** Excel, PowerPoint, Apache Spark, Azure Databricks, LaTeX