

# Jose Nino

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## EDUCATION

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**Duke University**, Durham, North Carolina

Aug 2018 - May 2022

Bachelor of Science with Distinction in Economics, Minor in Mathematics

*Honors Thesis: "A Perfect Storm: The Effect of Natural Disasters on Child Health"*

- Advised by Erica Field and Michelle Connolly, I examine the effects of flooding on diarrhea and acute respiratory infection after Typhoon Labuyo in the Philippines. Using ArcGIS and NASA satellite data, I identified each household's distance from the nearest flooded area. I constructed a spatial regression discontinuity design, comparing children exposed to flooding to children living just outside the flood border. My research contributed a novel flooding measure, as previous studies relied on government reports.

## RELEVANT COURSEWORK AND SKILLS

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**Economics:** Econometrics and Data Science, Economics of Global Health, Labor and Family Economics, Intermediate Microeconomics, Intermediate Macroeconomics, Economics of Entrepreneurship, Global Domestic Policy

**Mathematics:** Real Analysis, Mathematical Statistics, Ordinary and Partial Differential Equations, Linear Algebra and Differential Equations, Probability, Multivariable Calculus

**Computer Science:** Data Structures and Algorithms, Introduction to Computer Science

**Programming Languages:** Python, R, Stata, HTML, CSS, JavaScript, Java, Julia, MATLAB

## RESEARCH INTERESTS

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Development Economics, Economics of Crime, Economics of Corruption, and Economic Development

## WORKS IN PROGRESS

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**"The Effect of Deportations on Crime"** | [GitHub](#)

- I propose that the little evidence of any reduction in crime in response to deportation policies stems from heterogeneous effects on various crime types. My plan involves conducting an event study to examine different responses of crime types over time following the enactment and dissolution of the Secure Communities program in the U.S. The empirical results will serve as a foundation for developing an extended labor market search and matching model incorporating Becker's (1974) model of crime to identify any changes in legal and criminal employment following the policy.

**"The Role of Industrial Policy: Evidence from China's Semiconductor Industry"** with Colin Caines (Federal Reserve), Sharon Jeon (Federal Reserve), and Eva Van Leemput (Federal Reserve)

**"Limitations of the Income Pooling Hypothesis"** with Ángel García-Lascurain Fernández (Arizona State University), Marjorie McElroy (Duke University), and Ziyuan Wang (University of British Columbia)

## RESEARCH EXPERIENCE

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**Federal Reserve Board of Governors**, Washington, District of Columbia

Jul 2022 - Present

Research Assistant

*Illegal Commodities and the Business Cycle*

- The Illegal Commodities and the Business Cycle project investigates the effects of legal and illegal commodity (cocaine) price changes on the business cycle in Latin America. Under María Aristizábal-Ramírez, I coded cumulative orthogonal IRFs in Stata and sourced domestic activity data for the studied countries. This involved extensive searches across various sources, including current literature and official websites in Spanish. To ensure comprehensive data coverage, I explored alternate sources, such as using employee and wage data to construct average wages.

### *The Impact of China's Demographic Cliff on Outward Investments*

- The Impact of China's Demographic Cliff on Outward Investments project quantifies the impact of demographic changes on growth in China. Under Colin Caines, François de Soyres, and Étienne Gagnon, I primarily implement the overlapping generations model code in Julia. By conducting thorough searches on the Chinese statistical agency's websites, I sourced crucial data that had not been used in the existing literature. I also contributed to discussions on refining the China OLG model, deciding on features to retain from the U.S. model and new incorporations.

### *The Role of Industrial Policy: Evidence from China's Semiconductor Industry*

- The Role of Industrial Policy Planning project assesses the impact of industrial policy on economic growth and future innovation, focusing on China's semiconductor industry. My primary responsibilities involve cleaning large datasets, crafting charts to highlight relevant stylized facts, and contributing to the writing process with Colin Caines and Eva Van Leemput. I play a key role in organizing ideas, identifying crucial charts and results, and, during the drafting and refining stages, suggesting potential new data sources and ways to enhance our data presentation for a more robust analysis.

**DevLab**, Durham, North Carolina

Aug 2021 - May 2022

Research Assistant

### *COVID-19 and Household Well-Being in Developing Countries*

- The COVID-19 and Household Well-Being in Developing Countries project investigates corruption in the trade of essential medical supplies during the COVID-19 pandemic. Under Erica Field and Erik Wibbels, I used Python to apply methods from the illicit financial flows literature to quantify and visualize price gaps in import and export data across Comtrade country transactions. By identifying significant price disparities across transit countries, my results directed us to explore the drivers behind why these countries were particularly corrupt in medical supplies.

**Environmental Justice Lab**, Durham, North Carolina

May 2021 - May 2022

Research Assistant

### *Residential Location and Segregation*

- The Residential Location and Segregation project assesses racial discrimination in the U.K. housing market. Under Christopher Timmins and Amy Binner, I collaborated with other research assistants to design, test, and deploy a program that scrapes rental listings and sends inquiries to realtors from different racial backgrounds. I integrated economic design into the project by addressing a potential endogeneity issue in random assignment and implementing improvements. I also included a crucial tracking feature that aided data recovery, restoring over 300 observations for analysis.

**McElroy Labor Lab**, Durham, North Carolina

Feb 2021 - May 2022

Research Assistant

### *Limitations of the Income Pooling Hypothesis*

- The Limitations of the Income Pooling Hypothesis project argues that the hypothesis falls short, citing inconclusive results across theoretical labor economics papers. I identified the models' hypothesis tests and results, contributed to discussions, and crafted a narrative around the findings.

### *Joint Determination of Labor and Marriage Market Outcomes*

- The Joint Determination of Labor and Marriage Market Outcomes project proposes that the labor and marriage markets are jointly determined. I constructed instruments for the marriage market equations and coded the 3SLS, 2SLS, reduced form, and OLS estimates for the model in Stata.

## AWARDS & ACHIEVEMENTS

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**Horey Family Scholarship:** Awarded to promising undergraduate women in economics.

**Women's Impact Network Scholarship:** Awarded to undergraduate women who demonstrate leadership qualities.

**Facebook Above & Beyond Computer Science Program:** Selected to participate in a 10-week coding workshop series with Facebook engineers.

## TEACHING EXPERIENCE

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**Research Assistant Technical Training**, Washington, District of Columbia

Jun 2023 - Sep 2023

Lecturer and Teaching Assistant

- I taught 8 lectures on various programming languages to new research assistants at the Federal Reserve, revised existing materials for clarity, and designed new coding exercises to reinforce comprehension.

## ADDITIONAL ACTIVITIES

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**Federal Reserve Education Outreach (FedEd)**, Washington, District of Columbia    Jan 2023 - Present  
Leadership Team Member

- FedEd is a research assistant-led program that provides high school students from underrepresented backgrounds exposure to economics through school presentations on various topics. I revise existing materials for better understanding and devise new lectures on current research. Additionally, I am organizing a speaker series at the Federal Reserve that features a presentation on how to think like an economist, a fireside chat with division directors, and a Q&A session where research assistants will share insights from their career journeys in economics.

## HOBBIES

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Running (Half-Marathon, Sprint Triathlon), Figure Skating, Taekwondo, A Capella

## REFERENCES

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Dr. Christopher Timmins  
Gary J. Gorman Affordable Housing Professor  
The Wisconsin School of Business  
Email: [ctimmins@wisc.edu](mailto:ctimmins@wisc.edu)

Dr. Erica Field  
Professor of Economics  
Duke University  
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