

# JULIAN DIAZ-GUTIERREZ

## CONTACT INFORMATION

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Citizenship: Colombian

## EDUCATION

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**University of Illinois Urbana-Champaign**  
Ph.D. in Agricultural and Applied Economics

2020-2026 (expected)

**Universidad EAFIT**, Colombia  
Master of Science in Economics

2015-2016

**Universidad Santo Tomás**, Colombia  
B.A. in Economics (with honors)

2008-2012

## FIELDS OF RESEARCH

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Primary: Health Economics, Development Economics, Labor Economics.

Secondary: Environmental Economics.

## RESEARCH EXPERIENCE

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**University of Illinois, Urbana-Champaign**  
Research and Teaching Assistant, Department of Agricultural and Consumer Economics

2020-present

**The World Bank**  
Research Analyst, Latin America and the Caribbean Chief Economist Office

2017-2020

**The World Bank**  
Consultant, South Asia Poverty Global Practice

2016-2017

**Universidad EAFIT**  
Research Assistant, Department of Economics

2015-2016

**Centro de Estudios Regionales del Magdalena Medio (CER)**  
Research Assistant

2013-2014

## PUBLICATIONS

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Canavire-Bacarreza, G., Diaz-Gutierrez, J. E., & Hanauer, M. M. (2018). Unintended consequences of conservation: Estimating the impact of protected areas on violence in Colombia. *Journal of Environmental Economics and Management*, 89, 46-70.

## WORKING PAPERS

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**Automation, Economic Shocks, and Infant Mortality: Evidence from Mexico (Job Market Paper)**

**Abstract:** In this paper, I investigate the impact of increased robotics in the United States on infant mortality rates in Mexico. Using a shift-share design that leverages variations in industrial robot usage and the employment composition of export-oriented *maquiladoras*, which predominantly employ

women, I find that regions with higher exposure to U.S. automation experienced a greater rise in infant mortality rates. The analysis shows that women in manufacturing faced larger job losses than men, leading to reduced household income and access to employer-provided healthcare. This economic strain forced many women into self-employment within manufacturing, reducing time for childcare. Additionally, I present evidence suggesting that automation may increase risky behaviors, such as drinking and smoking, among uninsured women of childbearing age. These findings highlight the complex relationship between technological advancements and public health outcomes, emphasizing the need for policymakers to consider the cross-border effects of automation on global health and employment.

### Trade Effects on Substance Abuse: Evidence from Colombia's Liberalization

**Abstract:** This paper examines the impact of trade liberalization on substance abuse in a developing country context. I study a unilateral reform implemented in Colombia in 2010, which reduced tariffs in the manufacturing and mining sectors. Using a Bartik-style measure of local exposure based on pre-reform employment composition and a continuous-treatment difference-in-differences design, I link tariff cuts to municipality-level rates of substance abuse between 2009 and 2014. The analysis relies on administrative health data covering the universe of hospitalizations and emergency room visits, allowing me to capture both intensive (patients) and extensive (services) margins and to distinguish by substance type. I find that municipalities more exposed to the reform experienced statistically significant increases in substance abuse relative to less exposed areas. The effects are driven by alcohol and cocaine, and are more pronounced among middle-aged individuals and women. Evidence from matched employment data suggests that labor market disruptions are a key mechanism. The findings highlight previously overlooked health externalities of trade policy.

### POLICY WORK CONTRIBUTIONS

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**Going Viral: COVID-19 and the Accelerated Transformation of Jobs in Latin America and the Caribbean (2020).** Latin America and Caribbean Studies. Washington, D.C. World Bank.

**The Economy in the Time of Covid-19 (2020).** Latin America and Caribbean Semiannual Report . Washington, DC. World Bank.

### WORK IN PROGRESS

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The Impacts of U.S. Immigration Policy on Fertility in Mexico (with Mary Arends-Kuenning).

Long-Term Effects of Student Mobilizations on Academic Achievement and Labor Participation in Colombia (with Angelica Sanchez-Diaz).

Land Demining and Mental Health in Colombia.

### SCHOLARSHIPS, GRANTS AND HONORS

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ACDIS Summer Research Fellowship, UIUC (U.S. \$6,000) (2023)

Travel Grant, Department of ACE UIUC (U.S. \$500) (2022)

Latin American and Caribbean Environmental Economics Program Research Grant (U.S. \$7,500) (2016)

Latin American and Caribbean Environmental Economics Program travel grant (U.S. \$1,200) (2017)

Master's full scholarship at Universidad EAFIT (2015-2016)

Best second-year paper, Ph.D. program in Agricultural and Applied Economics, UIUC (2023)

*Cum Laude* Distinction, Universidad Santo Tomás (2012)

### TEACHING EXPERIENCE

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**University of Illinois, Department of Agricultural and Consumer Economics**  
*Teaching Assistant*

- ACE 240: Personal Financial Planning (spring 2022, fall 2022, spring 2023, fall 2023, spring 2024)
- ACE 349: Risk Management and financial planning across the life cycle (spring 2023, spring 2024)
- ACE 449: Retirement and benefit planning (fall 2021, spring 2023, spring 2024)

## CONFERENCES AND SEMINARS

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**2025**-Midwest International Economic Development Conference, UIUC; International Policy and Development (IPAD) Workshop, UIUC; WELAC (LACEA) Workshop on Gender and Household Economics, Lima, Peru.

**2024**- International Policy and Development (IPAD) Workshop, UIUC

**2023**- AAEA Annual Meeting. Washington, DC

**2018**-6th World Congress of Environmental and Resource Economics. Gothenburg Sweden

**2017**-Latin American and Caribbean Environmental Economics Association (LACEEP). Viña del Mar, Chile.

## SKILLS AND LANGUAGES

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### Statistical Programming

Stata, R, Python

### Software & Tools

ArcGIS, QGIS, LaTeX, Excel

### Languages

Spanish (native), English (proficient)

## PROFESSIONAL SERVICE

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Referee for Economic Analysis Review, Department of Economics, School of Economics and Business at Universidad Alberto Hurtado.

Graduate student coordinator, UIUC International Policy and Development workshop (2023-2024)

## REFERENCES

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Mary Arends-Kuenning  
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William Ridley  
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Julian Reif  
Associate Professor  
Department of Finance  
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