

# DANIEL PRUDENCIO

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## EDUCATION

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Ph.D. in Economics, Rice University (Expected) May 2021  
CONCENTRATION: *Econometrics and Quantitative Economics*  
DISSERTATION: *Essays on human and physical capital investments in developing countries*  
M.A. in Economics, Rice University (Expected) Dec 2020  
M.A. in Applied Statistics, Tecnológico de Monterrey May 2015  
B.A. in Economics, Tecnológico de Monterrey May 2013

## RESEARCH FIELDS

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Education Economics, Empirical Industrial Organization, and Development Economics.

## MODELING AND PROGRAMMING SKILLS

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Modeling: factor analysis, clustering, principal component analysis, non-parametric auction estimation, causality inference models, demand estimation (BLP), and small area estimation.

Software: R, Julia, Stata, SQL, L<sup>A</sup>T<sub>E</sub>X.

Fieldwork: co-directed two large impact evaluation projects, and successfully engaged with a large Mexican university for two years to elicit survey data and analyze it in conjunction with its administrative records.

## WORKING PAPERS

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1. [Elections and Productivity in the Allocation of Pavement Contracts in Mexico - Job Market Paper.](#)  
METHODS: *Non-parametric auction estimation, optimization, and event study.*
2. [Developing Educational and Vocational Aspirations through International Child Sponsorship: Evidence from Kenya, Indonesia, and Mexico](#), (with Paul Glewwe, Phillip Ross, and Bruce Wydick - Revision Submitted, *World Development*).  
METHODS: *IV, and mediation analysis.*
3. [International Child Sponsorship Impact on the Intended Choice of Acquiring a Higher Education Degree: the Case of Rural Mexico.](#)  
METHODS: *Discrete choice model, causality inference, optimization, and integration with Gauss-Hermite quadrature.*

## WORK IN PROGRESS

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1. Whose Opinion Matters Most for the Choice of a Major? The Relative Influence of Parents, Teachers and Peers.  
METHODS: *Discrete choice model, decomposition analysis.*
2. Students' Willingness to Pay for University Attributes.  
METHODS: *Discrete choice model, hypothetical choice methodology, random utility model.*

## BOOK CHAPTERS

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1. "Airline Economics: A Survey of Applied Issues in the Performance of the US and International Airline Industry", (with Levent Kutlu and Robin Sickles), in R. Chambers, S. Kumbhakar, and S. Ray (eds.), *Volume II, Handbook of Production Economics*, New York: Springer - *forthcoming*.

## PUBLICATIONS (PRE-PH.D.)

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1. "A Long-Term Employment Deprivation Index for Mexico." (2017). *Estudios Económicos*, 32(1): 133-65 (with Rocío García).
2. "A Shapley Decomposition of Multidimensional Chronic Poverty in Argentina." (2017). *Bulletin of Economic Research*, 69(1): 23-41 (with Rocío García).
3. "Los Efectos del Fondo de Aportaciones para la Infraestructura Social Sobre la Pobreza en México." (2014). *Región y Sociedad*, 26(60):63-88 (with Fernando Ramones).

### Engineering

4. "Hyperspectral Analysis of Soil Polluted With Four Types of Hydrocarbons." (2019). *Geocarto International*, 34(9), 925-42 (with Laura A. Reséndez-Hernández and Diego Fabián Lozano-García).

## POLICY REPORTS

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1. "On the Allocation of Public Works Contracts: Risks in Bypassing Procurement Auction Procedures." (2019). Baker Institute Issue Brief no. 04.23.19.
2. "Getting Public Investment in Education Wrong in Mexico." (2020). Baker Institute Issue Brief no. 02.26.20.

## FELLOWSHIPS, SCHOLARSHIPS, AND AWARDS

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Graduate Fellow, Rice University's Baker Institute – Center for the U.S. and Mexico.	Nov. 2018 - May 2020
The Puentes Consortium, Summer Fellowship Grant.	Summer-2019
Rice Fellowship, Rice University.	2015-2021
Masters Stipend Scholarship, CONACYT.	2013-2015
Graduate Student Researcher (Visitor), Southern Methodist University.	Summer, 2014
Masters Scholarship, CONACYT-OEA-AMEXID.	2013
Academic excellence scholarship, M.A., Tecnológico de Monterrey.	2013-2015
Academic excellence scholarship, B.A., Tecnológico de Monterrey.	2008-2013

## TEACHING AND RESEARCH EXPERIENCE

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<b>Teaching assistant</b> , Rice University	Fall 2015-Present
Principles of Microeconomics, Microeconomics, Religion, Ethics, and Economics.	
<b>Workshop lecturer</b> , Tecnológico de Monterrey	
Econometrics with Stata (10 weeks)	2014
<b>Research assistant</b> , Tecnológico de Monterrey	2011-2015
Assisted with data management and statistical analysis of large data sets using Stata and R. Tasks included:	
<ul style="list-style-type: none"> <li>- an analysis of the Mexican labor market,</li> <li>- conducting an impact evaluation of an infrastructure program for poor households,</li> <li>- estimating a complexity map of Mexican industries,</li> <li>- studying the effect of the state fund FAIS over local poverty,</li> <li>- proposing a multidimensional labor deprivation index,</li> <li>- and applying small area estimation methods to a proposed labor deprivation index.</li> </ul>	

## PROFESSIONAL ACTIVITIES

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**Conferences:** 2020: Economics Graduate Student Conference (*scheduled*), The University of Texas Rio Grande Valley (*scheduled*), Bolivian Conference on Development Economics; 2019: Sobre México, Academia Against Corruption in the Americas; 2018: UNU-Wider; 2014: 6th Bolivian Conference on Development Economics, 89th Western Economic Association; 2013: 5th Meeting of the Society for the Study of Inequality (ECINEQ), 39th Eastern Economic Association, Network on Inequality and Poverty (NIP).

**Referee for:** Economía, Sociedad y Territorio; Investigación Económica.

## OTHER

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Languages: Spanish (native), English (fluent).

## REFERENCES

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Professor Robin Sickles  
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