# Rodrigo Andrés Morales Mendoza

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moralesmendozar.com

## EDUCATION

**University of Pennsylvania**  Philadelhpia, PA
*PhD candidate - Economics*  *Aug. 2018 - present*

**University of Pennsylvania**  Philadelhpia, PA
*MA in Economics*  *May 2020*

**Instituto Tecnológico Autónomo de México**  Mexico City, MX
*BA in Applied Mathematics, graduated with honours*  *Aug. 2012 – Dec 2016*

**Instituto Tecnológico Autónomo de México**  Mexico City, MX
*BA in Economics, graduated with honours*  *Aug. 2010 – Dec 2016*

## RESEARCH/WORK EXPERIENCE

**Research Assistance with Prof. Laura Alfaro**  Summer 2021
*Harvard Business School*
- External Panel Review for World Bank: Doing Business

**Research Assistance**  Summer 2021
*World Bank*
- Doing Business:
- External Panel Review (Link to the review: https://apo.org.au/node/314345 )

**Economist / Analyst**  September 2016 – Present
*Banco de México*  *Mexico City, MX*
- Gerencia de Investigación del Sector Real - Dirección de Investigación Económica
- Applying panel vector instrumental autoregression (Generalized Method of Moments)
- Multivariate Singular Spectral Analysis as an alternative to the traditional X12 seasonal adjustment
- TfIds and created networks to study the efficiency of communication within Banco de México

**Research in Industrial Projects for Students**  Summer 2016
*UCLA*  *Los Angeles, CA*
- Machine Learning information filtering system for the company
- Institute for Pure and Applied Mathematics (IPAM)
- GumGum Company, University of California LA, California

**Research Assistant with Prof. Felipe Meza**  January 2015 – June 2016
*Instituto Tecnológico Autónomo de México (ITAM)*  *Mexico City, MX*
- Projects which included working with macro-economics, public debt
- FA-VAR models

**Undergraduate REU, Research in the Field Lab – Neuroscience**  Summer 2014
*Cornell University*  *Ithaca, NY*
- Visual Processing: Developing a Relative Depth Algorithm with PCA
- Psychology department

## MACHINE LEARNING CONFERENCES

**Frontiers in Machine Learning and Economics: Methods and Applications**  October 2022
*Federal Reserve Bank, Philadelphia*

**Conference on Big Data for Development and Governance**  October 2022
*University of Pennsylvania*

## Teaching

| | |
|---|---|
| **TA for History of Economic Thought (ECON 4560)** | Spring 2023 |
| *Undergraduate level, University of Pennsylvania* | |
| **TA for Pricing Strategies (MKTG 288)** | Spring 2023 |
| *Wharton, Undergraduate and 2 MBA sections, UPENN* | |
| **TA for Managerial Economics** | Summer 2022 |
| *WE-MBA Wharton, UPENN, San Francisco (West Coast)* | |
| **TA for Foundations of Market Economies** | Fall 2020, Fall 2021, Fall 2022 |
| *Undergraduate level, University of Pennsylvania* | |
| **Course instructor: Statistics I, Undergraduate level** | Summer 2022 |
| *Undergraduate level, Rio Grande College* | |
| **Course instructor: Calculus I, Undergraduate level** | Summer 2022 |
| *Undergraduate level, Rio Grande College* | |
| **Course instructor: Microeconomic Theory, Undergraduate level** | Summer 2020 |
| *Undergraduate level, Sichuan University* | |
| **TA for Political Economics of Early Americas** | Spring 2020, Spring 2021, Spring 2022 |
| *Undergraduate level, University of Pennsylvania* | |
| **TA for Economics 2 (Macroeconomics)** | Fall 2019 |
| *Undergraduate level, University of Pennsylvania* | |
| **Course instructor: Penn Summer Prep. What is Mathematics? High School level** | Summer 2019 |
| *University of Pennsylvania* | |

## Awards

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|---|---|
| **IMF Macroeconomic Forecasting online course** | February 2017 |
| *International Monetary Fund (EdX)* | |
| **Machine Learning course certificate** | June 2016 |
| *Stanford Online (coursera)* | |
| **DAAD Scholarship: Hochschulsommerkursstipendium: Nanu, die Deutschen!** | Summer 2015 |
| *Humboldt Universität zu Berlin* | |
| **Mathematics Project Competition Award** | Summer 2011 |
| *Millennium Youth Camp in Finland* | |

- Dijkstra Algorithm applied to minimizing routes on Finnish Tram system (programmed on Mathematica)

## Languages

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|---|---|
| **Spanish** | |
| *Mother tongue* | |
| **English** | 2017 |
| *TOEFL (115/120)* | |
| **German B2 level** | Summer 2015 |
| *Humboldt Universität zu Berlin* | |
| **French** | 2010 |
| *DELF A2* | |

## Programming Skills

**Languages**: Python (Sklearn), Matlab, R, Stata, Java (Netbeans, Eclipse, JCreator LE), Maple, Mathematica, Latex, Eviews, Julia, Linux (Mint and Ubuntu)
**Libraries**: pandas, NumPy, Matplotlib

## Sports

**Volleyball team member**: Instituto Tecnológico Autónomo de México (ITAM), from 2012 to 2013
**Banco de Mexico Basketball team member**: Banco de Mexico, 2017 season