

Rodrigo Andrés Morales Mendoza

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EDUCATION

University of Pennsylvania

PhD in Economics

Philadelphia, PA

Aug. 2018 – Present

Instituto Tecnológico Autónomo de México

Double Degree in Economics and Applied Mathematics, graduated in both with honours

Mexico City, MX

Aug. 2010 – Dec 2016

RESEARCH/WORK EXPERIENCE

Economist / Analyst

Banco de México

September 2016 – Present

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
- TFDs and created networks to study the efficiency of communication within Banco de México

Research in Industrial Projects for Students

UCLA

Summer 2016

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

Instituto Tecnológico Autónomo de México (ITAM)

January 2015 – June 2016

Mexico City, MX

- Projects which included working with macro-economics, public debt
- FA-VAR models

Undergraduate REU, Research in the Field Lab – Neuroscience

Cornell University

Summer 2014

Ithaca, NY

- Visual Processing: Developing a Relative Depth Algorithm with PCA
- Psychology department

TEACHING

TA for Foundations of Market Economies

University of Pennsylvania

Fall 2020

Course instructor: Microeconomic Theory, Undergraduate level

Sichuan University

Summer 2020

TA for Political Economics of Early Americas

University of Pennsylvania

Spring 2020

TA for Economics 2 (Macroeconomics)

University of Pennsylvania

Fall 2019

Course instructor: Penn Summer Prep. What is Mathematics? High School level

University of Pennsylvania

Summer 2019

AWARDS

IMF Macroeconomic Forecasting online course

International Monetary Fund (EdX)

February 2017

Machine Learning course certificate

Stanford Online (coursera)

June 2016

DAAD Scholarship: Hochschulsummerkursstipendium: Nanu, die Deutschen!

Humboldt Universität zu Berlin

Summer 2015

Mathematics Project Competition Award

Millennium Youth Camp in Finland

Summer 2011

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

LANGUAGES

Spanish

Mother tongue

English

2017

TOEFL (115/120)

German B2 level

Summer 2015

Humboldt Universität zu Berlin

French

2010

DEL F 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

COMMUNICATION SKILLS

Motivational talk about Millennium Youth Camp for High-School: Instituto Sucre students (February 2012)

Motivational talk about Missions work for High School: Colegio Vista Hermosa students (December 2012)

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