

Hector Mendoza

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Research interests

Health economics, economics of aging, reproductive health, and applied econometrics

Education

- 2024 – Present **Yale University** – New Haven, CT
Visiting Assistant in Research – Fox Fellow
- 2022 – Present **El Colegio de Mexico** – Mexico City, Mexico
PhD in Economics
Thesis advisor: Marquez Padilla Casar, Fernanda *GPA: 3.9.*
- 2014 – 2016 **El Colegio de Mexico** – Mexico City, Mexico
MA in Economics
Thesis advisor: van Gameren, Edwin *GPA: 3.6.*
- 2004 – 2008 **Universidad Nacional Autonoma de Mexico (UNAM)** – Mexico City, Mexico
BA in Actuarial Science
GPA: 3.5.

Scholarships

- 2022-Present **Scholarship (CONACyT)**
Scholarship for PhD.
- 2014-2016 **Scholarship (CONACyT)**
Scholarship for Master.

Thesis

- 2016 **Master's Thesis: "Impact of Retirement on Health and Mortality"**
- 2022-Present **Doctoral Thesis: "Political Business Cycles and Birth Outcomes in Mexico"**

Research experience

- Summer 2016 **Summer internship**
Mentor: Dr. Emma Aguila (University of Southern California).
Participating in the development of research on migration and pensions

Teaching experience

- August to December 2023 **Teaching assistant: Probability. B.A. in Economics (El Colegio de Mexico)**
Combinatorial Analysis, Foundations, Random Variables, Discrete Distributions, Continuous Distributions, and Functions of Random Variables
- 2022-Present **Teacher: Business Intelligence. Diploma in Digital Marketing, module 11. (Universidad Nacional Autonoma de Mexico (UNAM))**
Data driven marketing, data analytics, classification, forecasting, and clustering
- August to December 2015 **Teaching assistant: Probability. B.A. in Economics (El Colegio de Mexico)**
Combinatorial Analysis, Foundations, Random Variables, Discrete Distributions, Continuous Distributions, and Functions of Random Variables
- June and July 2015 **Teaching assistant: Mathematics, Preparatory course. Master in Economics (El Colegio de Mexico)**
Integral calculus, differential calculus, optimization

Industry experience

- 2021-2022 **Sanofi (Supply Chain Analytics Manager)** – Mexico City, Mexico
Responsible for overseeing the analytical department for the entire supply chain.
- 2020 **TV Azteca (Data Director)** – Mexico City, Mexico
In charge of the data department at TV Azteca, from managing suppliers to implementing a robust data analytics platform.
- 2019-2020 **AFORE XXI Banorte (Analytics Manager)** – Mexico City, Mexico
Responsible for the department in charge of creating analytical models for the strategic planning department.
- 2017-2018 **Mondelez International (Analytics Manager for Latin America)** – Mexico City, Mexico
In charge of the analytics department for Latin America for measuring the return on investment of marketing efforts.

2017 **Coppel (Data Scientist)** – Sinaloa, Mexico
Responsible for the development of machine learning models for the supply chain department.

Talks and tutorials

February 2024 **Optimize your marketing strategy with a marketing mix model**
Seminario TIC. DGTIC Universidad Nacional Autonoma de Mexico.

August 2022 **Applied Analytics to Marketing**
Seminario TIC. DGTIC Universidad Nacional Autonoma de Mexico.

2006 **The scientific conception of the exchange of goods for the maximum satisfaction of the owners of goods**
International Colloquium at the Faculty of Economics, Universidad Veracruzana

Mentorship and service

January to July 2008 **Social Service (Universidad Nacional Autonoma de Mexico (UNAM))**
Tutor for Calculus, Algebra, Probability, and Statistics

Approved international exams

2016 – Present Society of Actuaries (SOA)
Exam P, Probability. The syllabus for Exam P develops your knowledge of the fundamental probability tools for quantitatively assessing risk.

2018 – Present Society of Actuaries (SOA)
Exam SRM, Statistics for risk modeling. Regression models, time series models, principal components analysis, decision trees, and cluster analysis.

Technical skills

Programming languages

Proficient in R, and SQL and familiar with Python, and STATA

Software

LaTeX, Github, Excel, Power BI, Tableau

Languages

English (advanced), Spanish (native)

Other specializations and courses

Specialization on Statistical Analysis with R for Public Health, Imperial College London. Online, 40 hours, Coursera.

Specialization on Executive Data Science, Johns Hopkins University. Online, 40 hours, Coursera.

Diploma in Investment Projects, 6 months, National Autonomous University of Mexico (UNAM)

Course in Statistics for Marketing, Meta. Online, 16 hours, Coursera.

Course in Introduction to Data Analytics, Meta. Online, 14 hours, Coursera.

Course in Data Analytics Methods for Marketing, Meta. Online, 12 hours, Coursera.

Course in Marketing Analytics Foundation, Meta. Online, 11 hours, Coursera.

Course in Excel Basics for Data Analysis, IBM. Online, 11 hours, Coursera.

Course in Environmental Hazards and Global Public Health, University of Michigan. Online, 17 hours, Coursera.

A Crash Course in Causality: Inferring Causal Effects from Observational Data, University of Pennsylvania. Online, 18 hours, Coursera.

Course in Essential Design Principles for Tableau, University of Pennsylvania. Online, 12 hours, Coursera.

Course in The Classical Linear Regression Model, Queen Mary University of London. Online, 22 hours, Coursera.

Course in Visual Analytics with Tableau, University of California, Davis. Online, 9 hours, Coursera.

Course in Fundamentals of Visualization with Tableau, University of California, Davis. Online, 10 hours, Coursera.

Course in Creating Dashboards and Storytelling with Tableau, University of California, Davis. Online, 14 hours, Coursera.

Course in Introduction to Data Science: Statistical Programming with R, National Autonomous University of Mexico (UNAM). Online, 46 hours, Coursera.