





# MANUEL A. QUINTERO CORONEL

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## EDUCATION

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 <b>Massachusetts Institute of Technology (MIT)</b> P.h.D. Social and Engineering Systems & Statistics Doctoral Student at the Institute for Data Systems and Society (IDSS).	2023 - 2028
 <b>University of Cambridge</b> Master's degree in Mathematics Concentration: Optimization, Probability, and Statistics	2022 - 2023
 <b>Instituto Tecnológico Autónomo de México (ITAM)</b> Bachelor of Science in Applied Mathematics	2015 - 2020
 <b>Instituto Tecnológico Autónomo de México (ITAM)</b> Bachelor of Arts in Economics	2015 - 2020

## WORK EXPERIENCE

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<b>Research Assistant to Ph.D. Horacio Larreguy (Harvard / ITAM)</b> Utilized advanced data analysis, spatial visualization, and machine learning to provide data-driven insights and enhance decision-making processes.	Mar 2021 - Jan 2023
<b>Research Assistant to Ph.D. Fotini Christia (Director of MIT's SSRC)</b> Contributed to statistical analysis for a Nature Human Behavior paper, employing techniques like cross-validation and L1-penalization.	Mar 2021 - Aug 2022
<b>Graduate Teacher Assistant (ITAM)</b> Published tutorials in multiple languages, boosting student skills in applied research and economics.	Jan 2021 - Dec 2021
<b>Research Assistant (Center for Economic Research, ITAM)</b> Identified non-fundamental ARMA models in financial time series through the development of MATLAB code.	June 2020 - Dec 2020
<b>Associate Researcher (National Institute of Statistics and Geography, INEGI)</b> Co-authored a technical chapter on business cycles using macroeconomic time series data.	June 2019 - Feb 2020

## TECHNICAL SKILLS

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### Licenses and certifications

Data Science: R Basics by HarvardX (certificate, 2019); Data Science: Machine Learning by HarvardX (certificate, 2022); High-Dimensional Data Analysis by HarvardX (certificate, 2022); Using Python for Research by HarvardX (certificate, 2022); Python for Data Science and Machine Learning Bootcamp (certificate, 2022); Neural Networks and Deep Learning by DeepLearning.AI (certificate, 2022); Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization by DeepLearning.AI (certificate, 2022).

### Programming Languages:

(Advanced): R, Python, Stata, MATLAB, and  $\text{\LaTeX}$ . (Intermediate): Java, EViews, and C#. (Beginner): HTML, JavaScript, and C++.

## SELECTED PUBLICATIONS

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- Christia, F., Larreguy, H., Parker-Magyar, E. et al. Empowering women facing gender-based violence amid COVID-19 through media campaigns. *Nat Hum Behav* (2023). <https://doi.org/10.1038/s41562-023-01665-y>.
- Bandiera Antonella, Horacio L. John M. Daniela P. and Manuel Q. 2022. "Can We Shield Citizens Against Misinformation Through Digital Literacy Training and Fact-checks?" *Working paper*.

## HONORS AND AWARDS

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- Presidential Graduate Fellowship, MIT (2023-2024).
- Research Award: Honorable mention in Applied Mathematics (2022).
- Research Award: Honorable mention in Economics (2022).
- Undergraduate Student Scholarships at ITAM (2015 - 2018).
- Business School Excellence Award – ITAM (2015 – 2016).