
MARTÍN REYES HOLGUÍN

355 Leverett Mail Center, 28 DeWolfe Street, Cambridge, MA, 02138

(617) 599 6919 • mreyes@college.harvard.edu

EDUCATION

HARVARD UNIVERSITY

Cambridge, MA

A.B, Applied Mathematics to Computer Science | Secondary: Statistics | Citation: Chinese

May 2023

Overall GPA: 3.74/Concentration GPA: 3.96

Relevant Coursework: ML, NLP, algorithms and complexity, complex and real analysis, probability and inference.

COLEGIO BOLÍVAR

Cali, Colombia

Bachillerato Colombiano | American High School Diploma

June 2019

Overall GPA: 3.90

WORK EXPERIENCE

CITI

New York, NY

Summer Quantitative Analyst Intern

May 2022 – Present

Builds mathematical and computational models for financial asset management.

HARVARD GROWTH LAB

Cambridge, MA

Research Assistant

February 2021 – Present

Implements recommender systems collaborative filtering models to recommend jobs and products for developing countries to propel their economies. Co-authors a research paper with Dr. Andrés Gómez-Liévano.

VIGILAMOS RH TIERRA MÉXICO

Mexico City, Mexico

Data Science Intern

January 2021 – January 2021

Replicated machine learning models that predict crime in Mexico. Coded a function to generate PDF reports of crime in municipalities and states in Mexico for their webapp.

COLLEGE SCHOLAR

Remote

Cofounder, Senior College Counselor, and Director of Technology

November 2019 – Present

Counsels students from underprivileged backgrounds in Latin America to study in colleges like Harvard, MIT, Stanford, etc. Created Google app scripts to automate processes and developed the webpage and student portal.

ENGAGING EDUCATION

Remote

Content Creation Specialist

November 2019 – December 2020

Programmed chatbots in YAML that teach interactive math lessons and explain math problems for the Lana app.

DEREK BOK CENTER FOR TEACHING AND LEARNING

Cambridge, MA

Learning Lab Undergraduate Fellow

October 2019 – June 2020

Created apps using Cinema 4D, Unity, D3.js for classes at Harvard to make learning more interactive.

SKILLS

Programming languages: Python, R, SQL, OCaml, LaTeX, JavaScript, HTML/CSS, Swift, Java, C

Libraries: Numpy, Pandas, Matplotlib, RShiny, Scikit Learn, PyTorch, TorchText, SciPy, Beautiful Soup, D3JS

Skills: Hypothesis testing, data cleaning, data visualization, data analysis, supervised & unsupervised learning.

Languages: Spanish, English, and French (Fluent); Chinese (Intermediate Proficiency)

Interests: Education, Violin, Piano, Guitar, Sustainability, Latin dance, AI for social good, proofs.

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PROJECTS

POMBO EDUCATION

Developed an app that diagnoses educational inefficiencies in the classroom. Designed the UI/UX for the application, a predictive model trained on data from 10,000 schools in Colombia, the firebase infrastructure, etc.

QUESTIONS TO ATIS SQL QUERIES

Created a system that parses natural language questions and uses various models including logistic regression, naïve Bayes, rule-based, and seq2seq encoder-decoder models to generate SQL queries for the ATIS data set.

MINI-ML LANGUAGE INTERPRETER

Implemented three interpreters of a subset of the OCaml language, each with a different semantic assumption.

DISCRETE MATH EXPLORABLE EXPLANATIONS

Created RShiny webapps that calculated permutations, operations, conversions, subgroups, and Cayley graphs of different important groups. Created visualizations of Euclid's GCD, Fleury's, Prim's, and Kruskal's algorithms.

CHUSPA APP

Developed iOS app that scans supermarket products and displays eco-footprint from life cycle assessment models.

LEADERSHIP AND TEACHING

HARVARD COMPUTER SCIENCE DEPARTMENT

Cambridge, MA

Computer Science Teaching Fellow

December 2021 – Present

Develops curriculum for new class: Machine Learning for Social Good. Mentors team of 5 students to create machine learning solutions for the CDC. Hosts office hours, leads workshops, grades assignments.

HARVARD MATHEMATICS DEPARTMENT

Cambridge, MA

Mathematics Course Assistant

June 2021 – December 2021

Super CA for the 90-student intensive summer course in multivariable calculus, MATH S-21A. CA for the fall 2021 version of multivariable calculus, MATH 21A. Grades homework and quizzes and leads office hours and sections.

HARVARD COLLEGE CANDELA LATIN DANCE TROUPE

Cambridge, MA

Choreographer and Treasurer

September 2020 – Present

Designed salsa, bachata, and merengue choreographies. Taught social and performance classes to 40+ students. Led team to classify and perform on Harvard Cultural Rhythms 35 and 36. Invited to the UPenn salsa conference.

HARVARD ORGANIZATION FOR LATIN AMERICA

Cambridge, MA

Co-President and Secretary

September 2020 – Present

Invited guest speakers to enlighten us about current events in economics, STEM, and politics related to Latin America. Coordinated a fundraiser to help underprivileged children in Latin America. Organized social events.