Menlo Park, CA 94025 United States ⊠ jcortiz@stanford.edu iuancarlosortizr.github.io

Juan Carlos Ortiz

Education

Fall 2019 - Present Stanford University, PhD in Mathematics, Stanford, CA.

GPA: 4.0/4.0. I passed my qualifying exams in April 2020.

Area of Interest: Theoretical Computer Science

Selected CS Courses.

Software Development for Scientists and Engineers (CME 211), Machine Learning (CS 229), Practical Machine Learning (CS 329P), Artificial Intelligence (CS 221), Data Structures (CS 166), The Modern Algorithmic Toolbox (CS 168).

Fall 2015 - Spring

Massachusetts Institute of Technology, Bachelor of Science in Mathematics, Cambridge, MA.

GPA: 4.8/5.0. Graduation Date: June 2019.

Selected Honors

2015 International Mathematics Olympiad (IMO), Chiang Mai, Thailand. Gold Medal. Third ever Mexican participant to achieve this recognition.

Summer 2014

2014 International Mathematics Olympiad (IMO), Cape Town, South Africa. Silver Medal.

Summer 2013

2013 International Mathematics Olympiad (IMO), Santa Marta, Colombia. Silver Medal.

Work Experience

Summer 2022 Meta - Software Engineer and Machine Learning Intern, Menlo Park, CA.

Summer 2021 Jane Street Capital - Quantitative Trading Intern, New York City, NY.

- Used SQL and Python (Pandas) to extract and interpret financial market data and build models which predict volumes of different types of securities based on market events in related securities.
- Practiced high-pressure decision-making and communication skills in 40+ hours of simulated trading sessions.

Fall 2019-Present

Teaching Assistant, Stanford, CA.

- o Teaching Assistant for Linear Algebra and Multi-Variable Calculus (MATH 51, Winter
- Course Assistant for Applied Number Theory (MATH 110, Spring 2020).
- o Course Assistant for Fundamental Concepts of Analysis (MATH 171, Spring 2021).

Technologies

Python: Proficient, C++: Intermediate, JavaScript: Beginner, OCaml: Beginner Linux, Git, LATEX

Selected Mathematics Research

Summer 2018 UROP+ program at MIT, Cambridge, MA.

Mentors: Piotr Suwara, Dr. Matthew Stoffregen.

o Conducted research on the Steenrod Square on Khovanov-like knot homologies. The final paper can be found at: https://math.mit.edu/research/undergraduate/urop-plus/ documents/2018/Ortiz.pdf.