Carlos Martínez Quintero

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Education

Charles University **October 2023 – June 2026 (expected)**

Computer science undergraduate student in Prague, Czechia.

Relevant Courses: Set Theory, Probability and Statistics 1, Formal Mathematics and Proof Assistants, Non-Procedural Programming, Algebra 1 & 2, Propositional and Predicate Logic, Combinatorics and Graph Theory 1, Automata and Grammars, Algorithms and Data Structures 1 & 2, Computer Systems, Programming 1 & 2, Programming in C++, Linear Algebra 1 & 2, Mathematical Analysis 1 & 2

Camps attended

Winter Applied Rationality Program (WARP) 2022: *March 2022*

Camp in Oxford, UK for analytically-minded students with sessions in topics related to information theory, cryptography, psychology and game theory.

Atlas Fellowship Summer Program: *June 2022*

Summer program in Berkeley, CA, attended by Atlas Fellows on topics such as AI, epistemology, and personal growth.

European Summer Program on Rationality (ESPR) 2022: *August 2022*

Camp in Oxford, UK for mathematically talented students with sessions in topics related to information theory, cryptography, communication skills, game theory and AI.

Maths Beyond Limits (MBL) 2022: *September 2022*

Mathematical program in Rycerka Dolna, Poland for gifted high school students. Attended classes on topics such as: Category theory, discrete-time random processes, formal languages and automata, lambda calculus. Also gave a talk on the constructed language Toki Pona.

Maths Beyond Limits (MBL) Balkans 2023: *March 2023*

Mathematical program in Konjic, Bosnia and Herzegovina for gifted high school students. Attended classes on topics such as: Haskell, expected values, the limits of computation, model theory, and machine learning. Also gave a camper talk on Conway's Game of Life.

Maths Beyond Limits (MBL) 2023: *September 2023*

Mathematical program in Rycerka Dolna, Poland for gifted high school students. Attended classes on topics such as: Category theory, algebraic topology, ordinals and transfinite recursion, projective geometry. Also gave a talk on meditation.

Programming experience

Haskell, Lean, C#, Python, C/C++, LaTeX, and a bit of Prolog

Languages spoken

Spanish (native), English (fluent – studied at school for at least 9 years)

Test scores

GRE: Verbal: 165; Quant: 166. Taken on April 30, 2022.

SAT: Total: 1570; Math: 800; EVBRW: 770. Taken on December 3, 2022.

Selected fellowships and awards

Atlas Fellowship: Was selected as Atlas fellow. Received scholarship and attended summer program.

Awarded May 2022.

Mexican Mathematical Olympiad (OMM) 2021: Gold medal, awarded November 2021.

Mexican Mathematical Olympiad (OMM) 2022: Gold medal, awarded November 2022.

Mexico IMO TSTs: 2022 and 2023, 8th place (best result)

Work and selected internships

Qualia Research Institute: Worked as an independent contractor for QRI for 10 weeks, from June 2023 to August 2023.

Mercor: Math expert since October 2024, to this day.

Teaching

Tutor at Maths Beyond Limits 2024: *September 2024*

Gave a three-day set of lectures on automata theory and formal grammars.

Tutor at MBL Balkans 2025: *April 2025*

Gave a three-day set of lectures on propositional and predicate logic.

Projects (available at GitHub)

Conway's Game of Life simulator using Tkinter: *January 2024*

Written in Python as a semester project for the Programming 1 class at Charles University. Allows for simulation in 'infinite' grids.

Arbitrary-Precision Symbolic Calculator: *June 2024*

Written in C# as a semester project for the Programming 2 class at Charles University. Allows for computations with rationals, certain elements of finite fields as well as matrices.

Parser and Interpreter for a Small Haskell-like Functional Language: *June 2025*

Written in Haskell as a semester project for the Non-Procedural Programming class; will extend to an exploration of tactic-based programming as an Individual Software Project for university