

# Carlos Martínez Quintero

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## Summary

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CS undergrad at Charles University (GPA 1.04 ≈ 3.9 US). Mexican math-olympian (gold at nationals, top-8 in IMO TSTs) still passionate about mathematics; now deep into functional programming, proof assistants, & formal methods; teaches at international math camps.

## Education

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[Programming experience](#).....

**Proficient:** Haskell, Python, L<sup>A</sup>T<sub>E</sub>X, C#

**Intermediate:** C/C++, Lean

**Basic:** Prolog

**Charles University, BSc Computer Science (math-heavy track)**    **GPA: 1.04 / 4 (best = 1)**

*October 2023 - June 2026 (expected)*

**Currently taking:** Probability and Statistics 2, Functional Programming, Algebraic Topology 1, Algebraic Invariants in Knot Theory

**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

[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.

## Work and selected internships

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**Qualia Research Institute:** Independent contractor; June 2023 to August 2023.

**Mercor:** Math expert; October 2024 to present.

## Teaching

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**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.

**Tutor at Maths Beyond Limits 2025:**

*September 2025*

Gave a three-day set of lectures on theorem proving in Lean, jointly with Ruth Plümer.

## Projects (available on GitHub)

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**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.

## Selected fellowships and awards

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**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; top 6 make IMO team)

### Camps attended

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

**Atlas Fellowship Summer Program:** June 2022

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

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

Gave a talk on Toki Pona.

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

Gave a talk on Conway's Game of Life.

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

Gave a talk on meditation.

**Farum Mathcamp 2024:** February 2024

Gave a talk on the mathematics of the game of Hex.