

# Carlos Martínez Quintero

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[depressedcubic.github.io](https://depressedcubic.github.io) • [DepressedCubic](https://github.com/DepressedCubic)

## Education

### Charles University

October 2023 – June 2026 (expected)

*Computer science undergraduate student in Prague, Czechia.*

**Relevant Courses:** Automata and Grammars, Algorithms and Data Structures 1, Computer Systems, Programming 1 & 2, Linear Algebra 1 & 2, Mathematical Analysis 1

### 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.....

C#, Python, C/C++,  $\text{\LaTeX}$

### Languages spoken.....

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

### 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

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

## 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.

## Projects (available at 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.