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	Providence, RI 02912	Portfolio: hypochoco.com
		Phone: (720) 936-9354

EDUCATION   **Brown University**, RI   2020–2024 (expected)

- A.B. Architecture.

  - *Coursework*: Studio Foundation, Engineering Analysis of Static Structures, Architectural Design Studio 1 and 2, Dynamics and Vibrations, History of Modern Architecture, Architectural Projection.

- Sc.B. Applied Mathematics.

  - *Coursework*: Applied Ordinary and Partial Differential Equations, Honors Linear Algebra, Statistical Interference, Multi-variable Calculus, Abstract Algebra, Topology, Computational Linear Algebra, Functional Programming, Numerical Solutions to Differential Equations, Data Structures and Algorithms.

AwesomeMath Summer Program, Cornell University, UT Dallas   2017, 2018

- *United States of America Mathematical Olympiad (USAMO) Preparatory Classes*: Algebra 3.5, Geometric Proofs 3.

  - *Professors*: João César Campos Vargas (IMO Silver Medalist), Dimitar Grantcharov.

- *United States of America Mathematical Olympiad (USAMO) Preparatory Classes*: Algebra 2.5, Counting Strategies.

  - *Professor*: Marius Tiba (IMO Gold medalist).

PROJECTS   **Spring Projectile Optimizer**   MATLAB

- Given a system of springs and masses, calculates the optimal spring constants and system of masses to achieve the maximal launch height.

Predator Prey   MATLAB

- Created an algorithms for a slow, agile mass and a fast, slow-maneuvering mass, where the former avoids the latter, and the latter pursues the former.

Solar Car   MATLAB

- Given the intensity of the sun, length of a track, mass of the car, temperature of the day, calculates the optimal gear ratio to achieve the minimum time for a car to cover the distance of the track.

SKILLS   *Programming Languages*: Java, Javascript, HTML, CSS, Python.

Technical Softwares: MATLAB.

Creative Softwares: Adobe Photoshop, Adobe Illustrator, Adobe InDesign, Adobe Premiere Pro, Rhino3D, AutoCAD, Blender.

WORK   **Mathnasium**, CO   2020–2021
EXPERIENCE
- Mathematics Instructor 4th–12th, SAT, GED.

Casa de Esperanza, CO   2018–2020

- Mathematics Instructor K–6th.