Daniel Cho **Updated: January, 2022**

CONTACT
69 Brown St. Box 2832
Providence, RI 02912

E-mail:daniel_s_cho@brown.edu
Portfolio:hypochocoart
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 EXPERIENCE

Mathnasium, CO 2020–2021

- Mathematics Instructor 4^{th}–12^{th}, SAT, GED.

Casa de Esperanza, CO 2018–2020

- Mathematics Instructor K–6^{th}.