

☐ τ Estrada Rivera

We have two ears and one mouth so we can listen twice as much as we speak.

— Epictetus

Education

2023 – Now B.Sc. Computer Science

CCOM-UPR-RP @ San Juan, Puerto Rico

- Location: San Juan, Puerto Rico Started a bachelor's in Computer Science.
- Teacher's assistant for Proyecto Remezcla and Pre-calculus.
- Tutor for Discrete Mathematics.
- Board member of and active participant in Asociación de Estudiantes de Ciencia de Cómputos.

2021 – N/A B.A. Environmental Design (dropped)

EARQ-UPR-RP @ San Juan, Puerto Rico

- Lead a team of architects and won the Buildner International Architecture competition.
- Participated in a month-long student exchange program at UNAM.

Research Experience

25/6/14 – 7/27 Cataloging Existing Data on the Math Community

MSRI-UP @ Berkeley, California US

24/8 – 25/5 Domain Periodic Multidimensional Costas Sequences

CCOM-UPR-RP @ San Juan, Puerto Rico

This article focuses on finding more Costas sequence constructions that result in domain periodic or multidimensional Costas sequences.

24/6/1 – 7/28 Counting Arithmetical Structures on Cycles with a Doubled Edge

VPR³ @ Philadelphia, Pennsylvania US

This article focuses on finding a closed formula for the amount of arithmetical structures on a cycle graph with a single doubled edge. We were able to simplify the problem significantly. Consequently, we were able to find a closed formula, given that this simpler problem gets solved.

2024/3 – 5 Observation and Analysis of System KPP-1802

UPR-RP @ San Juan, Puerto Rico

This article presents the data from 10 distinct observations using the telescope network from LCO of the double star system KPP-1802.

Teaching

2023/08 – Now Discrete Mathematics Teacher's Aid

CCOM-UPR-RP @ San Juan, Puerto Rico

Organized weekly studying sessions for the discrete mathematics students. The discrete mathematics course is known for being a very hard undergraduate class for the students in computer science.

- Highest rate of students passing happened during my first year as a teacher's aid.

2023/08 Precalculus Teacher's Aid

MATE-UPR-RP @ San Juan, Puerto Rico

Assisted a professor during an advanced placement summer pre-calculus course. During this, I dedicated the morning half of the day for general class assisting and the evening half to assist students one-on-one with general questions and homework. Our class had 70 students in total.

2023/7 – 8 Code Your Music Summer Camp

Remezcla UPR-RP @ San Juan, Puerto Rico

Taught a variety of students ranging from middle school to high school how to make music using computer science techniques.

- 50+ students participated.
 - All students successfully put into work good programming practices.
 - All students composed music they were proud of.
 - Perfect attendance throughout the entire camp.
 - Several students are now eager to continue studying Computer Science.
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Projects

2023 Fractal Escape Time Renderer

Personal

Implemented a graphics renderer entirely from scratch in C++. Can render fractals, those that are plotted using an escape-time algorithm.

- Completely from scratch in C++.
 - Parallelizable algorithms.
 - $\approx$ 200 lines of code.
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Languages

Language	<u>CEFR</u>	Quote	Years
Spanish	C2	¡Viva Puerto Rico Libre!	22
English	C2	“Be kind whenever possible. It is always possible.”	22
toki pona	B2	𐍄𐍅𐍆𐍇𐍈	2
Japanese	A2	侘び寂び	3
French	A2	Je ne parle pas français.	5
ASL	A2	👉	1

Programming Languages

General Purpose	Functional	Mathematics	Web	Typesetting
• C++ & C • Common Lisp • Go • Intel X86-64 ASM • Lua • Python • Racket • Rust • Zig	• APL • BQN • Haskell • J • Nix • OCaml	• Julia • R • SageMath • QCL	• Gleam • Javascript • PHP • SQL	• HTML • Markdown • Typst • LaTeX

Interests

- Parallel Computing
 - Digital & Analogue Photography
 - Drumming
 - Backpacking & Hiking
 - Bouldering or Rock Climbing
 - Mathematics
 - Language Learning
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For the PDF version [click here](#).

Personal data:

   Puertorican, Pan & Trans

 sona@stau.space

 <https://stau.space/>

 stau

 0009-0000-6779-8166

 sona.42