

Byron J. Encinas Velázquez

Email: byron_encinas@outlook.com | Github: ByronEncinas |+52 (662) 331-4298

EDUCATION

University of Texas El Paso

Master in Physics

El Paso, Texas

Aug 2023 - Current

- **Research Assistantship**

- **Interstellar Medium Cosmic Ray Measurements by Voyager 2 (Dr. Kedron Silsbee)**

University of Sonora/Universidad de Sonora

Bachelor in Physics | GPA: 3.69

Hermosillo, Sonora

Aug 2018 - Jan 2023

- **Relevant Coursework:**

- **Analytic Solutions in General Relativity (Summer Virtual Internship at UACJ)**

WORK EXPERIENCE

Intugo: Martindale-Hubbell

Call Center Agent (Technical Support)

Hermosillo, Sonora

May 15, 2023 - Aug 18, 2023

- Customer support, covering website updates, domain troubleshooting, login management, and general web-related assistance.

Formerly Conacyt (Scholarship)

Software Developer

Sept 15, 2023 - Nov 30, 2023

- Simulation of Fractures in Concrete Structures in Fortran.

LEADERSHIP EXPERIENCE & ACTIVITIES

XV Biennial Colloquium on Material Science with poster *Voronoi Polygons: Theory and applications in material science and biophysics*

Presenter (with Amir Dario Maldonado Arce, Luis F. Gutierrez C., Adolfo D. Cabral E.)

Hermosillo, Sonora

March 9th, 2023

- Review of main applications of Voronoi Polygons in science, mainly soft matter and diagram construction.

National Physics Congress 2022

Co-Author of Poster Simulations on Galaxy Collisions using Gadget-4 (with Ismael Cuen Galindo)

Zac., Zacatecas

October 5th, 2022

- Comparative analysis of two colliding galaxies under subliminal changes in their initial conditions.

Author of Poster History of Nuclear Fission

October 4th, 2022

- Comprehensive overview of the events and factors that culminated in the initiation of the Manhattan Project.

Inclusion Area -High Capacities Association DestaCa Sonora

Mentor/Volunteer

2021-2022

- Supervising activities, enhancing participation, and nurturing the growth of talented middle and high school students with advanced abilities.

Presenter of *Black Hole Thermodynamics* in the III College Encounter of Thermodynamics

Presenter

Online Edition

2021

- Analysis and description of the results obtained in *Black Hole Thermodynamics* by Stephen Hawking.

Peer Tutorship at University of Sonora

Physics and Math Tutor

Aug 2019 - May 2021

- Tutoring in Linear Algebra, Differential and Integral Calculus, Probability and Statistics, etc.

SKILLS & INTERESTS

Programming Languages & Database Management:

Fortran: Precision physics computations

Bash: Task automation

Python: Data analysis, automation

Ruby: Rails + TailwindCSS

LaTeX: Crafting intricate document layouts

PostgreSQL: Dynamic database growth.

SQLite: Local databases

Computing Tools:

Computer: Google Workspace, Microsoft Office, Git, Jira

Languages: English and Spanish proficiency