

Byron J. Encinas Velázquez

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EDUCATION

University of Texas El Paso

El Paso, Texas

Master in Physics

Current

- **Research Assistantship**
 - **Interstellar Medium Cosmic Ray Measurements by Voyager 2**

University of Sonora/Universidad de Sonora

Hermosillo, Sonora

Bachelor in Physics | GPA: 3.69

January 2023

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

WORK EXPERIENCE

Intugo: Martindale-Hubbell

Hermosillo, Sonora

Call Center Agent (Technical Support)

May 15, 2023 - August 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

Hermosillo, Sonora

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

March 9th, 2023

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

National Physics Congress 2022

Zac., Zacatecas

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

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

Online Edition

Presenter

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: Fortran, Python, Bash, Ruby (Rails), LaTeX, HTML, CSS, Wolfram Mathematica.

Database Management: SQLite, PostgreSQL

Computer/Cloud Tools: Google Workspace, Microsoft Office, Git, Github, Jira, Linux (Ubuntu/Debian)

Languages: English and Spanish fluency