Ana Laura Madrigal

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About Me

Physicist and mathematician with a growing specialization in data analysis and machine learning. Experienced in Python programming, advanced Excel tools, and key features of Power BI. Skilled in scientific computing, ETL workflows, and clear technical documentation across languages like Python, MATLAB, and Java. Continuously expanding knowledge in data-driven technologies, with ongoing training in Python development and business intelligence tools such as Power BI.

Certifications

Data Analysis and Visualization with Python — Microsoft   View Credential ↗
Preparing Data for Analysis with Excel — Microsoft   View Credential ↗

Education

2019 - 2024	**B.Sc. in Physical–Mathematical Sciences**	GPA: 8.67/10
	Universidad Michoacana de San Nicolás de Hidalgo	
	Facultad de Ciencias Físico Matemáticas (FCFM)	
2024	**Diploma in Data Science**	
	Tecnológico Nacional de México	

Other Activities & Outreach Volunteering

Oct 2024	Attended the *LXVII National Physics Congress*, Chihuahua
Apr 2024	Participated in the workshop *Track: Image Analysis*, She++ VIII Edition, Universidad de Guanajuato
Mar 2023	Virtual attendee at the *4th Mexican Bioimaging Workshop*, LNMA, CICESE, UNAM
Dec 2022	Participant in the *3rd National Workshop on Plasmonics and Metaphotonics*, CICESE, BUAP, UMSNH, UdeG
Mar 2020	Volunteer participation at the *Electromagnetism Workshop* during the *Scientific Vocations Fair*, UMSNH
Mar 2020	Volunteer host at the *Mathematics Fair of Morelia*, CCM
Nov 2019	Led the *Hologram and Refraction Workshop* at the *XV Physics Fair*, UMSNH

Skills

Programming Languages	Python (ETL, Data Visualization), Java, HTML/CSS, JavaScript (basic), SQL, MATLAB
Scientific Computing	Numerical methods, simulations, algorithm design
Data Analysis	ETL workflows, data visualization, Power BI (basic), Excel (advanced)
Version Control	Git (narrative-driven commits, timeline curation)
Documentation	Clear and accessible technical writing in English and Spanish
Soft Skills	Empathetic communication, collaborative problem-solving, attention to detail