



# NATALIA BAEZ DE LA LUZ


## PHYSICIST


Physicist with a strong analytical mindset and growing specialization in Data Science and AI. Currently working as a Data Scientist and experienced in web development within public institutions and machine learning projects. Passionate about connecting scientific rigor with real-world technology applications.

### CONTACT

[GitHub](#)

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[Mexico City](#)

### EDUCATION

#### FACULTY OF SCIENCE (DEGREE IN PHYSICS), UNAM.

I graduated in **September 2023**. Beyond my academic pursuits, I actively engage in scientific outreach and teaching projects. I took my elective credits about programming classes to guide my professional development in this area.

#### THESIS STUDENT, Physics Institute, UNAM.

**November 2022 – June 2023.**  
**8 months**

I completed my thesis on atomic physics, titled **Atom-Field Interaction in Dispersive Optical Lattices**. My research was designed to be applied to Bose-Einstein Condensates.

### LANGUAGES

- Spanish
- English - B2
- German - A1

### SOFT SKILLS

Teamwork, proactivity, creativity, responsibility, communication skills.

### CONGRESSES

- LXV National Congress of Physics – Presenter (2 posters)
- LXVI National Congress of Physics – Talk + poster

### WEBSITE



### WORK EXPERIENCE

DATA SCIENTIST	DATAKNOW	OCTOBER - CURRENT JOB 2025
I work as a consultant in the Data & AI team, applying machine learning models and analyzing data on real-world problems		
WEB DEVELOPER	IMSS Bienestar COFEPRIS	2024 - 2025 1.5 years
Worked as part of the core development teams responsible for implementing new functionalities in existing systems and contributing to the analysis, design, and development of new modules. Collaborated in both frontend and backend tasks using JavaScript, Angular, and Django. Participated in requirement reviews and proposed improvements in system architecture and data management, gaining experience in large-scale public sector platforms.		
TEACHER ASSISTANT	Science Faculty UNAM	2023 6 months
Computing class for physicists. I taught classes about basic concepts in computation and graded assignments to students..		

Programming Languages Python, JavaScript, TypeScript	Version Control & Collaboration Git, GitHub
Design & Visualization Adobe Illustrator, Figma	Tools & Environments VS Code, Linux, PowerShell, Shell (bash)
Web Development HTML5, CSS3, Angular, Node.js, Django	Productivity & Documentation Notion, Markdown, LaTeX
Data, Analytics & Deep Learning Tools Pandas, PostgreSQL, Data Visualization, PyTorch, Microsoft Fabric	

### CERTIFICATIONS

Data & Analytics <ul style="list-style-type: none"><li>Foundations: Data, Data, Everywhere – Coursera, Google</li><li>Ask Questions to Make Data-Driven Decisions – Coursera, Google</li><li>Prepare Data for Exploration – Coursera, Google</li><li>Process Data from Dirty to Clean – Coursera, Google</li><li>Analyze Data to Answer Questions – Coursera, Google</li><li>Python and Pandas for Data Engineering – Coursera, Duke University</li><li>Build a Data Science Web App with Streamlit and Python – Coursera (Project)</li></ul>	Learning Strategies and their relationship with academic performance <ul style="list-style-type: none"><li>Analysis of the influence of learning strategies (self-management, motivation, and study techniques) on the perceived academic performance of university students using a linear regression model.</li></ul>
Web Development <ul style="list-style-type: none"><li>Introduction to HTML5 – Coursera, University of Michigan</li><li>Introduction to CSS3 – Coursera, University of Michigan</li><li>Interactivity with JavaScript – Coursera, University of Michigan</li><li>Advanced Styling with Responsive Design – Coursera, University of Michigan</li><li>Web Design for Everybody Capstone – Coursera, University of Michigan</li><li>Introduction to Web Development – Coursera, Andes University</li></ul>	Wine Classification <ul style="list-style-type: none"><li>Implementing a Neural Network for Multiclass Wine Classification: A Deep Learning Course Project using Scikit-Learn.</li></ul>
	Facial Expression Recognition <ul style="list-style-type: none"><li>A Deep Learning System for Real-Time Emotion Recognition from Grayscale Webcam Feeds.</li></ul>