

Jose Emmanuel Paredes Rocha

Python Developer ▪ Data Engineer

CONTACT

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Celaya, Gto., Mexico

[emmanuel-paredesrocha](https://www.linkedin.com/in/emmanuel-paredesrocha)

[Emmapr3](https://github.com/Emmapr3)

EDUCATION

National Autonomous University of Mexico (UNAM)

Cuernavaca, Mexico Aug 2019 – Jul 2021

Master of Science Degree (Physics).

Honorable Mention

Thesis: [Transport in graphene: Analogies with the gradient-index optics and pn junctions with defects.](#) *Wolfram Language*

National Autonomous University of Mexico

Mexico City, Mexico Aug 2014 – Dec 2018

Bachelor Degree in Physics.

Honorable Mention

Thesis: [Electron Optics in graphene heterojunctions.](#) *Wolfram Language*

About me

Graduated in Basics scientific research, looking for my first position outside this field. My strength is computational physics implementing models to programming. My experience in scientific research has taught me to do the right questions and work in its most efficient solutions.

I am looking to position myself as Data Scientist, beginning with creation and management of data bases. I am enthusiastic about learning new knowledge and expanding my skills to provide the most reliable programming, data processing and data analysis level. I enjoy discussing ideas and solving problems in teamwork efficiently. I am good at dealing with changes.

EXPERIENCE

Faculty of Science UNAM

Mexico City, Mexico

Teaching Assistant Professor

Aug 2021 – Feb 2022

- Teaching of implementation of quantum physics models to programming. Wolfram Language and Python
- Exposition facing a group (Effective communication).

Institut of Physical Sciences UNAM

Cuernavaca, Mexico

Programmer in Scientific Research

Aug 2019 – Dec 2021

- Rendering and implementation of quantum physics models for electron transport to computational code.
- Very efficient homemade code on Wolfram Language (Mathematica), to achieve massive matrices calculations in a personal computer.
- [Two scientific papers](#) on indexed journals.

Relevant Courses

Specialized Program: **Python 3 Programming** (In process)

University of Michigan through [coursera.org](#)

- [Python Basics](#)
- [Python Functions, Files and Dictionaries](#)
- [Data Collection and Processing with Python](#)
- [Python Classes and Inheritance](#)

Specialized Program: **Web Applications for Everybody** (In process)

University of Michigan through [coursera.org](#) ▪ [Introduction to Structured Query Language \(SQL\)](#)

School of Data Science 2021: Benefits for industry and business from data analysis. IMATE UNAM Cuernavaca

Summer School RIIAA 2021

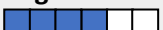
Summer School RIIAA 2020

SKILLS

Spanish



English



Adaptability



Learnability



Teamwork



Research



Problems solving



Proactivity



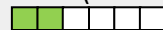
Communication



Windows



Linux (Ubuntu)



Wolfram Language



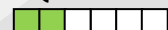
Python



Julia Language



SQL



Mathematica



Excel



Microsoft Office

