

# Cristian Juarez

Pátzcuaro, Michoacán

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<https://github.com/CristianJuVa>

## Education

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### Bachelor's degree in Earth Sciences

*National Autonomous University of Mexico (UNAM)*

*Student*

*August 2018 - June 2022*

Specialization in applied geophysics

Thesis: "Multifractal analysis of the 2020-2021 seismic swarm in Uruapan, Michoacán."

Advisor: Dr. Angel Figureoa-Soto

## Experience (Career summary)

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### Bachelor's thesis

*September 2022 - May 2023*

*Thesis student*

*Research Institute for Earth Sciences (INICIT)*

- Performed statistical and seismological research to understand the complex swarm in Uruapan, Michoacán through a multifractal analysis.
- Wrote a bachelor's thesis to share the results of the investigation with the scientific community.

### Academic Writing Course

*August 2022 - November 2022*

*Learner*

*UNAM*

- Development of academic writing skills in a variety of academic and professional contexts in English.

### Internship at Laboratory LAIDEA

*March 2022 - September 2022*

*Intern researcher*

*UNAM*

- Designed and applied an innovative method to understand the relationship between rocks' electrical and physicommechanical properties.
- Attend monthly meetings to share the most significant research advances and actively contribute to society through scientific dissemination.

### IRIS Seismology Skill Building Workshop

*June 2021 - August 2021*

*Learner*

*IRIS*

- Learned the most advanced technologies related to computational seismology for earthquake processing.
- Development of an end-of-degree project to study the Mw 8.2 earthquake that occurred in 2017.

### National Seismological Service

*February 2021 - May 2021*

*Learner*

*SSN*

- Learned the seismological tools used by the SSN to monitor earthquakes in Mexico.
- Carried out weekly tasks to apply the methodologies learned in the workshop to real seismic records.

## Language proficiencies

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**Spanish**

Native speaker

**English**

Intermediate-Advanced (B2)

### *Technical skills*

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#### **Programming Languages/Tools**

Python, Linux, Bash, Git-Github, L<sup>A</sup>T<sub>E</sub>X, Matlab, R, Sac, SEISAN, Qgis, ArcMap, Qiskit

### *Volunteering*

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#### **Firefighters**

Support to the city's fire brigade in various emergency situations.