



# Ana Karina Mariano Reyes

## Geophysical Engineer

### PROFILE

Passionate about the oil and gas industry, with technical knowledge and scientific skills that allow me to develop in a multidisciplinary environment. Responsible and committed to the projects assigned to me, I can achieve high-impact results.

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🌐 [Ana Karina Mariano Reyes](#)

### EDUCATION

- **Instituto Politécnico Nacional (IPN)**

*Bachelor of Geophysics Engineering*

Sep 2015 - Dec 2019

*Thesis completed in February 2023*

- **Escuela Preparatoria Oficial  
Anexa a la Normal de Chalco**

*Educational Profile*

Completed in 2014

### SKILLS

#### LANGUAGES

*Spanish - Native Speaker*

*English - B2 Level IELTS Academic Certificate*

#### PROGRAMS AND SOFTWARE

*ArcGIS*

*Office Package*

*Petrel*

*Globe Claritas*

*Seismic Unix*

*MESA*

*TESSERAL*

*Techlog*

#### PROGRAMMING LANGUAGES

*Fortran*

*Python*

*MATLAB*

*GNU Octave*

*R*

### WORK EXPERIENCE

#### **Instituto Politécnico Nacional | Undergraduate Researcher**

*Apr 2021 - Feb 2023*

During my research, I worked with AYATSIL, MALOOB, ZAAP, KU, AKAL, ONEL, XUX, and XANAP fields, the highest oil and gas production zones in the shallow water of the southeastern oil province, as well as the geology of the region, to reduce the risks after the passage of a tropical cyclone through historical data analysis.

#### **Comisión Nacional de Hidrocarburos (CNH) | Social Service**

*Jun 2019 - Feb 2020*

I worked in different departments within the CNH. In the first stage, I built the national base of oil fields (BNCP), performing a quick look and interpretation of geophysical logs and their relationship with the stratigraphic columns in the Southeast and Tampico-Mizantla Basins, abandonment processes, and completion of wells. I also transferred historical information provided by PEMEX and IMP from PAPER to DIGITAL. In addition, I was updating investment reports in Spanish and English and doing 3D Seismic Interpretation.

#### **IPN Community Social Service Brigades | Paid Brigadist**

*Apr 2019*

I worked in a multidisciplinary environment making geological characterization and spatial data analysis, managing the short time stress to present the results to the decision-makers of the municipal government.

#### **CONACYT National Science and Technology Week | Intern**

*Sep 2018 - Nov 2018*

Creator and exhibitor of experiments for "Natural catastrophes: Earthquakes and hurricanes." Teenagers, members of universities, and researchers attended. Appealing to my creativity and my communication skills.

#### **IPN Children's and Youth Science and Technology Fair | Intern**

*2016 - 2018*

My colleagues and I created an experiment called "Suelo de Gelatina," explaining the waves generated in an earthquake and seismic acquisition to teenagers and kids and how they are propagated on the surface.

#### **School Ignacio Manuel Altamirano | Professional Practices**

*Jan 2013 - Dec 2013*

As a part of my education, I taught maths and music lessons for kids between 9 and 12 years old.

## CERTIFICATIONS

- **AAPG Latin America & Caribbean Region - Leadership Summit**  
*Sponsored by Shell, Chevron, SierraCol Energy, AAGGP, ACGGP, Gillis&Cook, DP World, and MAGA*  
Completed in Apr 2022
- **Cadena de Valor en la Exploración**  
AAPG IPN Student Chapter - CNH  
Completed on Jul 30, 31th & Aug 1st, 2020
- **Python Enfocado a Geociencias**  
AAPG IPN Student Chapter - ScientiaENERGY  
Completed on 10-14 August 2020
- **Procesamiento e Imagen Sísmica**  
AAPG IPN Student Chapter - GEOFASS  
Completed on 26 Aug 2020
- **Introducción al Estudio de Rocas Carbonatadas**  
AAPG IPN Student Chapter  
Completed in 20 Sep 2020

## HOBBIES

- **Run half-marathons**
- **Going on field trips**
- **Music habilities**

## VOLUNTEERING

### **AAPG YP Mexico Chapter | Social Media Coordinator** *Jul 2021 - Present*

I lead a team to publish infographics and scientific information in the AAPG YP Mexico Chapter's social networks and collaborated with a team organizing courses and professional talks to develop technical and human skills.

### **AAPG LACR - Leadership Summit | Local Logistic** *Mar 2022 - Mar 2023*

Part of the organizing committee for the Leadership Summit 2023 held in Mexico, in which 22 students and young professionals from 14 countries participated. I reinforced my communication skills to close deals, manage numbers, adjust budgets, and synthesize information for intercultural communication in decision-making.

### **AAPG IPN Student Chapter | Active Member** *Apr 2019 - Jun 2021*

AAn active member of the student chapter of the AAPG IPN. I helped to organize and held different talks, workshops, and scientific publications for the student and oil community in a team collaboration, developing ideas and taking part in making decisions.

### **Youth Association "Pathfinders" | Director** *Jan 2018 - Dec 2018*

I developed my leadership skill by organizing, through a work team, recreational and volunteer activities for children between 10 and 15 years of age—organization of donations of clothes, food, and money to nursing homes and people without housing.

### **Youth Association "Pathfinders" | Member** *Jan 2016 - Dec 2017*

I was part of a team of volunteers who help organize activities for teenagers to teach them new skills and trades so that they do not fall into drugs.