
Formations and diplomas

August 2015 to May 2021 **Ph.D. in Earth Sciences**, *National Autonomous University of Mexico (UNAM), Morelia unit*, Morelia, MÉXICO.

Thesis below the supervision of Dr. José Luis Macías Vázquez (jlmacias@igeofisica.unam.mx)

Comitee: Dr. José Luis Arce Saldaña (jlarce@geologia.unam.mx) and Dr. Giovanni Sosa Ceballos (giovannis@igeofisica.unam.mx)

Place: UNAM Geophysics Institute, Michoacan unit, Morelia, MEXICO

Theme: Plinian eruptions associated to the post-activity of La Primavera, Mexico.

Objectives: Establish the distribution and stratigraphic order of the pyroclastic deposits, constrain their ages using the $^{230}\text{Th}/\text{U}$ and C^{14} radiometric dating methods, define their major and trace element composition using in-situ and whole-rock geochemical analysis, and use the relations between pyroclastic units and volcanic centers to improve the evolution model of La Primavera volcanic complex

2011 to 2013 **Master's Degree in Earth Sciences, Magmas and Volcanoes Speciality**, *Clermont Auvergne University (UCA)*, Clermont-Ferrand, FRANCE.

2nd year thesis below the supervision of Dr. Patrick Bachèlery

Place: Magmas and Volcanoes Laboratory (LMV), Clermont-Ferrand, FRANCE

Theme: Geochemical, textural and petrological characterization of the ERODER 4 sea campaign dredged samples around the La Réunion Island. Synthesis with the ERODER 2 and GEISER 2 sea campaigns.

1st year thesis below the supervision of Dr. John Murray and Dr. Benjamin van Wyk de Vries

Place: Department of Environment, Earth and Ecosystems, Open University, Milton Keynes, UNITED KINGDOM

Theme: Variations in spreading rates at Mount Etna volcano.

2010 to 2011 **Bachelor's Degree in Earth Sciences.**

Clermont Auvergne University (UCA), Clermont-Ferrand, FRANCE

2008 a 2010 **Associate's Degree in Earth Sciences and Environment.**

University of Pau and Pays de l'Adour (UPPA), Pau, FRANCE

Courses and workshops

November 13-22th 2017 **XXIV Edition of the International Volcanology Fieldwork course of the Central Andes.**

Place: National University of Salta, Natural Science Faculty, Salta, ARGENTINE

Participation: Assistant

Duration: 80 horas

August 19th 2017 **INTAV Workshop: Best practices in tephra collection, analysis, and reporting.**

Place: Portland, Oregon, U.S.A

Participation: Assistant

September 19th 2016 **XXVI conference course: Use of micro analytic techniques for LA-ICPMS: Theories and study cases.**

Place: Morelia, Michoacan, MÉXICO

Participation: Assistant

Publications

Stratigraphy and geochronology of the post-caldera explosive volcanism of the La Primavera Volcanic Complex, Mexico, Sourisseau D., Macías J.L., García Tenorio F., Ramón Avellan D., Saucedo Girón R., Bernal J.P., Arce Saldaña J.L., Tinoco Murillo Z., Journal of South American Earth Sciences, 2020.

Abstract in conferences

- September 2-7th 2018 **Cities on Volcanoes 10.**
Place: Naples, ITALY
Participation: Poster
Work title: Stratigraphy of the post-caldera explosive volcanism of the La Primavera Caldera Volcanic Complex, Jalisco, Mexico.
- August 14-18th 2017 **IAVCEI 2017.**
Place: Portland, Oregon, U.S.A
Participation: Poster
Work title: Stratigraphy of the post-caldera explosive volcanism of the La Primavera Caldera, Jalisco, Mexico.
- October 30th to November 4th 2016 **2016 Annual Reunion of the Mexican Geophysics Union.**
Place: Puerto Vallarta, Jalisco, MÉXICO
Participation: conference
Work title: Plinian eruptions associated to the post-caldera activity of the La Primavera, Jalisco.
- September 19-23th 2016 **XXVI National Chemistry Conference.**
Place: Morelia, Michoacan, MÉXICO
Participation: conference
Work title: Plinian eruptions associated to the post-caldera activity of the La Primavera, Jalisco.

Computing knowledges

MATLAB, PYTHON and LATEX programming languages
ArcGIS Geographic Information System software
CorelDRAW design software
Office suite (Word, Excel, PowerPoint, etc.)

Languages

- French** Native language
- English** Level of proficiency - B2 - UNAM ENES languages center, Morelia (20/08/2018)
- Spanish** Level of proficiency - C1 - SIELE (12/06/2019): Total punctuation of 898/1000, reading comprehension 204/250, listening comprehension 217/250, written expression 240/250, oral expression 237/250
- German** Basic knowledge
- Portuguese** Basic knowledge

Investigation topics

Physical volcanology	Caldera evolution
Tephrochronology	Geochemistry
Volcanic stratigraphy	Geochronology