

Delphine SOURISSEAU

Doctor in Earth Sciences

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Female, 32 years old, French nationality

Formations and diplomas

March 2022 to present **Postdoctoral researcher in volcanology**, *Instituto de Geología (IGL)*, *Universidad Nacional Autónoma de México (UNAM)*, Ciudad de México, MEXICO .
Below the supervision of Dr. José Luis Arce Saldaña (jlarce@geologia.unam.mx)
Theme: **The last explosive eruption of the Primavera caldera, that occurred between 44.7 ka and the present.**

August 2015 to May 2021 **Ph.D. in Earth Sciences**, *Instituto de Geofísica Unidad Michoacán (IGUM)*, *Universidad Nacional Autónoma de México (UNAM)*, Morelia, MEXICO .
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)
Theme: **Plinian eruptions associated to the post-caldera activity of La Primavera, Mexico.**
Degree date: May 7th 2021

2011 to 2013 **Master's Degree in Earth Sciences, Magmas and Volcanoes Speciality**, *Université Clermont Auvergne (UCA) (Université Blaise Pascal Clermont-Ferrand II before 2017)*, Clermont-Ferrand, FRANCE .

2nd year thesis below the supervision of Dr. Patrick Bachèlery
Place: Laboratoire Magmas et Volcans (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.**
Degree date: September 18th 2013

2010 to 2011 **Bachelor's Degree in Earth Sciences**, *Université Clermont Auvergne (UCA) (Université Blaise Pascal Clermont-Ferrand II before 2017)*, Clermont-Ferrand, FRANCE.
Degree date: June 9th 2011

2008 to 2010 **Associate's Degree in Earth Sciences and Environment**, *Université de Pau et des Pays de l'Adour (UPPA)*, Pau, FRANCE.
Degree date: Mayo 28th 2010

Courses and workshops

August 5-12th 2023 **Curso Internacional de Vulcanología de Campo, Séptima edición**
Manizales y Provincia Volcano-Tectónica San Diego - Cerro Machín.
Place: Universidad de Caldas, Manizales, COLOMBIA
Participation: Assistant (64 hours)

- January 28-29th 2023 **Virtual workshop “From field apps to data repositories, Improving tephra data discoverability, access, and workflows to support next generation research, IAVCEI tephra community.**
Place: IAVCEI Scientific Assembly 2023, Rotorua, New Zealand
Participation: Assistant
- August 15th to September 2nd 2022 **Modulo II y III. Aprendizaje profundo (DL) y grandes volúmenes de datos, Diplomado en Aprendizaje Máquina y Profundo aplicado a Grandes Volúmenes de Datos.**
Place: Universidad Nacional Autónoma de México, Morelia, MEXICO
Participation: Assistant (60 hours)
- February 10th to March 3rd 2022 **Tephra Fusion 2022 virtual workshop series, IAVCEI tephra community.**
Participation: Assistant
- December 6-15th 2021 **Modulo I. Aprendizaje automático (ML) para la mejora de la enseñanza aplicado a la Ciencia de Datos, Diplomado en Aprendizaje Máquina y Profundo aplicado a Grandes Volúmenes de Datos.**
Place: Universidad Nacional Autónoma de México, Morelia, MEXICO
Participation: Assistant (30 hours)
- November 13-22th 2017 **XXIV Edición del curso internacional de volcanología de campo de los Andes Centrales.**
Place: Universidad Nacional de Salta, Facultad de Ciencias Naturales, Salta, ARGENTINE
Participation: Assistant (80 hours)
- August 19th 2017 **INTAV Workshop: Best practices in tephra collection, analysis, and reporting.**
Place: IAVCEI Scientific Assembly 2017, Portland, Oregon, U.S.A
Participation: Assistant
- September 19th 2016 **Use of micro analytic techniques for LA-ICPMS: Theories and study cases.**
Place: XXVI National Chemistry Conference, Morelia, Michoacán, MEXICO
Participation: Assistant

Articles published

Genesis and evolution of the post-caldera pyroclastic rhyolites from La Primavera caldera, Jalisco, Mexico: A crystal mush perspective., *Sourisseau D., Arce J.L., Macías J.L., Sosa Ceballos G., Garcia Tenorio F., Avellán D.R., Saucedo-Girón R., Sanchez-Nuñez J.M., Ocampo-Díaz Y.Z.E*, Journal of Volcanology and Geothermal Research, 2023.

Citation: 0 (17/09/2023), <https://doi.org/10.1016/j.jvolgeores.2023.107911>

Stratigraphy and geochronology of the post-caldera explosive volcanism of the La Primavera Volcanic Complex, Mexico, *Sourisseau D., Macias J.L., Garcia 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.

Citation: 8 (17/09/2023), <https://doi.org/10.1016/j.jsames.2020.102747>

Article in preparation

The 6.4 ka hydromagmatic eruption at Colli Dome, La Primavera caldera, Jalisco, Mexico., *Sourisseau D., Arce J.L., Macías J.L., Garcia Tenorio F.*, In preparation.

Conferences

- Abril 23-27th 2023 **Convención Geológica Nacional 2023.**
Poster title: Actividad explosiva del Holoceno en la caldera de La Primavera, Jalisco, México.
Place: Ciudad de México, MEXICO
- October 30th to November 4th 2022 **Reunión Anual Unión Geofísica Mexicana 2022.**
Conference title: Actividad explosiva del Holoceno en la caldera de La Primavera, Jalisco, México.
Place: Puerto Vallarta, Jalisco, MEXICO
- June 12-17th 2022 **Cities on Volcanoes 11.**
Poster title: The last explosive eruption of La Primavera caldera, Jalisco, Mexico. [\[Link\]](#)
Place: Heraklion, CRETE
- September 2-7th 2018 **Cities on Volcanoes 10.**
Poster title: Stratigraphy of the post-caldera explosive volcanism of the La Primavera Caldera Volcanic Complex, Jalisco, Mexico. [\[Link\]](#)
Place: Naples, ITALY
- August 14-18th 2017 **IAVCEI Scientific 2017.**
Poster title: Stratigraphy of the post-caldera explosive volcanism of the La Primavera Caldera, Jalisco, Mexico. [\[Link\]](#)
Place: Portland, Oregon, U.S.A
- October 30th to November 4th 2016 **Reunión Anual Unión Geofísica Mexicana 2016.**
Conference title: Erupciones plinianas asociadas a la actividad post-caldera de La Primavera, Jalisco.
Place: Puerto Vallarta, Jalisco, MEXICO
- September 19-23th 2016 **XXVI Congreso Nacional de Geoquímica.**
Conference title: Erupciones plinianas asociadas a la actividad post-caldera de La Primavera, Jalisco.
Place: Morelia, Michoacán, MEXICO

Teaching

- January 31th - June 15th 2023 **Volcanology.**
Bachelor's degree in Earth Sciences, Science Faculty,
Universidad Nacional Autónoma de México, Ciudad de México, MEXICO
- February 1st - June 2nd 2023 **Volcanology.**
Master's degree in Earth Science,
Universidad Nacional Autónoma de México, Ciudad de México, MEXICO

Computing competences

- Writing of documents and presentations with Word, PowerPoint, and Latex**
- Data analysis with Excel, Python, and Matlab**
- Creation of georeferenced maps with ArcGis**
- Creation of graphics and figures with CorelDRAW**

Languages

French Native language

English Nivel B2 - UNAM ENES languages center, Morelia (20/08/2018)

Nivel B2 - TOEFL IBT (25/01/2014): Total of 85/120, Reading 20/30, Listening 26/30, Speaking 18/30, Writing 21/30

Spanish Nivel 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

Tephrochronology

Volcanic stratigraphy

Volcanic evolution

Geochemistry

Geochronology