

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 two last explosive eruptions 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-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

- 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 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 Edition of the International Volcanology Fieldwork course of the Central Andes.**
Place: National University of Salta, Natural Science Faculty, 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

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.

Factor H: 1 - Citation: 5 (10/06/2023), <https://doi.org/10.1016/j.jsames.2020.102747>

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., García Tenorio F., Avellán D.R., Saucedo-Girón R., Sanchez-Núñez J.M., Ocampo-Díaz Y.Z.E, *Journal of Volcanology and Geothermal Research*, submitted.

The 6.4 ka hydromagmatic eruption at Colli Dome, La Primavera caldera, Jalisco, Mexico., Sourisseau D., Arce J.L., Macías J.L., García 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. [\[Link\]](#)
Place: Ciudad de México, MÉXICO
- 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, MÉXICO
- 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.**
Licenciatura en Ciencias de la Tierra, Facultad de Ciencias
Universidad Nacional Autónoma de México. Ciudad de México, MÉXICO
- February 1st - June 2nd 2023 **Volcanology.**
Maestría en Ciencias de la Tierra
Universidad Nacional Autónoma de México. Ciudad de México, MÉXICO

Volunteer

- September to December 2014 **Colima volcano monitoring and data analysis, CIIV, Faculty science, Universidad de Colima, Colima, MEXICO.**
Below the supervision of Dr. Nick Varley
Place: Centro de intercambio e investigación en vulcanología (CIIV)
- August 2012 **Etna volcano slopes deformation monitoring, Department Environment, Earth and Ecosystems, The Open University, Milton Keynes, UNITED KINGDOM.**
Below the supervision of Dr. John Murray
Place: Etna volcano

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 the CorelDRAW software design

Creation of web page with the Hugo framework

Use of Git

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