

Delphine R. N.  
SOURISSEAU

*Doctor in Earth Sciences*

✉ [d.sourisseau@igeofisica.unam.mx](mailto:d.sourisseau@igeofisica.unam.mx)  
<https://orcid.org/0000-0002-9894-3108>  
<https://scholar.google.com/citations?user=6fCSTU4AAAAJ&hl=es>  
<https://www.researchgate.net/profile/Delphine-Sourisseau>  
Personal webpage: <https://dsourisseau.com/>  
Female, 30 years old, French nationality

---

## Formations and diplomas

August 2015 **Ph.D. in Earth Sciences**, *Instituto de Geofísica Unidad Michoacán (IGUM)*,  
to May 2021 *Universidad Nacional Autónoma de México (UNAM)*, Morelia, MEXICO .

Thesis below the supervision of Dr. José Luis Macías Vázquez ([jlmacias@igeofisica.unam.mx](mailto:jlmacias@igeofisica.unam.mx))  
Comitee: Dr. José Luis Arce Saldaña ([jlarce@geologia.unam.mx](mailto:jlarce@geologia.unam.mx)) and Dr. Giovanni Sosa Ceballos ([giovannis@igeofisica.unam.mx](mailto:giovannis@igeofisica.unam.mx))

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

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

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 .

2<sup>nd</sup> 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.**

1<sup>st</sup> 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 a 2010 **Associate's Degree in Earth Sciences and Environment**, *Université de Pau et des 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 (80 hours)

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.

Factor H: 1 - Citation: 2 (04/08/2021), <https://doi.org/10.1016/j.jsames.2020.102747>

**Chemical evolution of the La Primavera volcanic complex post-caldera activity, Mexico.**, Sourisseau D. *et al.*, in preparation.

---

## Conferences

September **Cities on Volcanoes 10.**

2-7th 2018 Poster title: Stratigraphy of the post-caldera explosive volcanism of the La Primavera Caldera Volcanic Complex, Jalisco, Mexico. [\[Link\]](#)  
Place: Naples, ITALY

August **IAVCEI 2017.**

14-18th 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 **2016 Annual Reunion of the Mexican Geophysics Union.**

to November Conference title: Plinian eruptions associated to the post-caldera activity of the La Primavera, Jalisco.  
4th 2016 Place: Puerto Vallarta, Jalisco, MÉXICO

September **XXVI National Chemistry Conference.**

19-23th 2016 Conference title: Plinian eruptions associated to the post-caldera activity of the La Primavera, Jalisco.  
Place: Morelia, Michoacan, MÉXICO

---

## Volunteer

September to **Work stay to carry out the monitoring of the Colima volcano and data**  
december 2014 **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 **Work stay to carry out the deformation monitoring of the Etna slopes, ITALIA**, *Departamento de Medio Ambiente, la Tierra y los Ecosistemas, Open University*, Milton Keynes, INGLATERRA.

Below the supervision of Dr. John Murray

Place: Etna volcano

---

## 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**

**Tephrochronology**

**Volcanic stratigraphy**

**Volcanic center evolution**

**Geochemistry**

**Geochronology**