

Delphine Roselyne Nathalie SOURISSEAU

*Ph.D. candidate*

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Female, 30 years old, French nationality

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## Formations and diplomas

- August 2015 to present **Ph.D. candidate in Earth Sciences, Geophysics of the Solid Earth, National Autonomous University of Mexico (UNAM), Morelia unit, Morelia, MÉXICO.**  
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 ([jlance@geologia.unam.mx](mailto:jlance@geologia.unam.mx)) and Dr. Giovanni Sosa Ceballos ([giovannis@igeofisica.unam.mx](mailto: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  $\text{C}^{14}$  radiometric dating methods, define their major and trace element composition using in-situ and whole-rock geochemical analysis, and use the relations between 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.**  
2<sup>nd</sup> year thesis below the supervision of Dr. Patrick Bachèlery  
Place: Magmas and Volcanoes Laboratory, 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.
- 2010 a 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*

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## 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

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## 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.

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## 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.

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## Computing knowledges

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

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## 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

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## Investigation topics

<b>Physical volcanology</b>	<b>Caldera evolution</b>
<b>Sub-plinian and plinian eruptions</b>	<b>Tephrochronology</b>
<b>Volcanic stratigraphy</b>	<b>Geochemistry</b>