



# Mylene Receveur

PhD Candidate in Geology  
Geothermal Energy

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- French

## Languages

- French ● ● ● ● ●
- English ● ● ● ● ●
- German ● ● ● ● ●
- Italian ● ● ● ● ●

## Hard Skills

- Geology
- Geophysics
- Hydrogeology
- Geothermal reservoir engineering
- THM Modeling

## Soft Skills

- Proactive, Self-Motivated
- Conscientious, Persevering
- Flexible, Autonomous

## Business skills

- Project management, HSQE
- Applied Economy, Accounting

## Education

### Postgraduate Training

Currently **PhD Candidate in geology** University of Edinburgh  
Investigating geothermal heat resources of legacy mine workings: why are some mine waters hotter than others?

### Study

2016 – 2018 **Master in Geology** University of Iceland  
Focus: Geothermal reservoir engineering – Continuum mechanics and Heat transfers – Measurements and models in Geodynamics – Geophysical Inversion

2018 **Master Thesis - Geothermal Sciences**  
Ground deformation induced by geothermal utilization at Reykjanes, SW-Iceland, inferred from Interferometric analysis of Sentinel-1 Synthetic Aperture Radar images (InSAR).

2012 – 2017 **Master in geology - Petroleum Geology** UniLasalle Beauvais  
Focus: Basin analysis - Sedimentology - Structural Geology - Sequential and Seismic Stratigraphy – Petrophysics – Reservoir modeling.

2015 **Bachelor Thesis**  
Analysis of Plio-Quaternary deposits and tectono-stratigraphic architecture of the Salice area, Messina, Sicily, Italy : 1 month field work and 8 month data / laboratory (SEM) analysis.

## Working Experience

### Professional Experience

May – Sept 2019 **Geothermal reservoir Engineer** BRGM, France  
3D modeling of the thermal breakthrough in the Dogger aquifer due to geothermal production at the Vigny geothermal doublet, using Marthe (BRGM) - Technical and economic feasibility study of the redeployment of oil and gas wells into geothermal wells.

June – Nov 2015 **Intern in Hydrogeology** BRGM, France  
Synthesis, processing and analysis of data from geothermal wells in the Dogger aquifer, Paris Basin, France - Creation and development of the "Dogger Database".

### Academic work

Sept 2018 – May 2019 **Research Assistant** University of Canterbury, New Zealand  
Study of the correlation between the co-seismic displacements during the 2016 Kaikoura Earthquake, South Island, New-Zealand, and long-term topography changes in this area, using InSAR data.

2015-2016 **Project based on IBA data (AAPG)** UniLasalle Beauvais, France  
Petroleum assessment of the Cooper and Eromanga Basins, Australia: Bibliographic review, synthesis of exploration and production data in ArcGIS - Seismic interpretation, play and prospect assessment, well log analysis and 3D modeling (Petrel)

July 2016 **Veolia Summer School** Veolia Environment, France  
Project management in multi-disciplinary and international teams for the implementation of smart and sustainable city (water, energy and waste management)

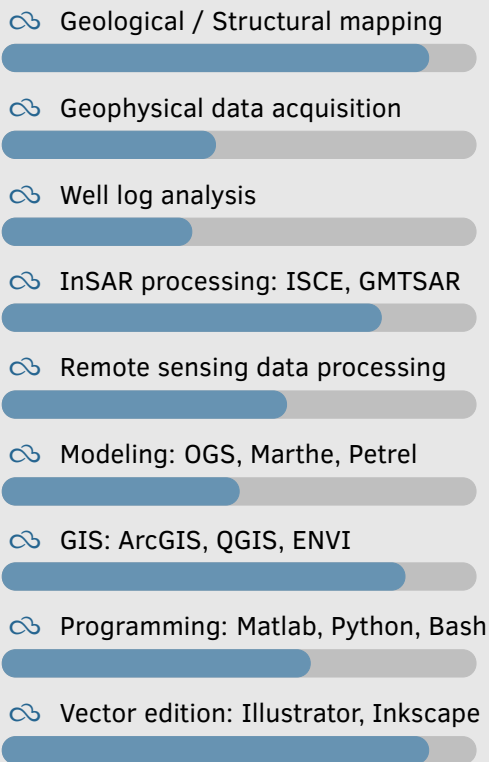
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## About Me

I graduated with a double Master's degree in Geology from the LaSalle Beauvais School (France) and from University of Iceland in 2018. In September 2019, I started a PhD at the University of Edinburgh (Scotland). My project consists in modeling heat transfers in abandoned flooded coal mines in Scotland to evaluate their geothermal resource potential.

## Barskills



## Memberships



European Geosciences Union

## Field Experience

2018	<b>Drone image acquisition</b>	University of Canterbury
	Acquisition of pictures of the beaches and cliffs in the Castelpoint area, North Island, New Zealand, using the DJI Phantom 4 Pro drone - 3D modeling using Agisoft (Photoscan).	
2017	<b>Structural mapping, Iceland (1 week)</b>	University of Iceland
	Fracture inventory, mapping and realization of conceptual models of groundwater flow.	
2016	<b>Geophysical data acquisition, Iceland</b>	University of Iceland
	Refraction/reflection seismic, micro-gravity and TEM/MT resistivity surveys (5 days) - GPS-Geodesy data acquisition, time series analysis and leveling (2 days).	
2014	<b>Geological mapping, Sicily (1 month)</b>	UniLasalle Beauvais
	Mapping of the Graben of Salice - Realization of high-resolution cross-sections - Sedimentological and structural analysis of Late Secondary to Quaternary sequences - Paleontological and paleo-current reconstitution.	
2012 – 2016	<b>Mapping Field Trips, France (4 months)</b>	UniLasalle Beauvais
	Mapping in sedimentary areas (i.e. Vigny, Oise, Bretagne, Normandy, The Alps, Dignes-les-Bain) and in volcanic areas: La Bourboule (Central Massif).	

## Scientific Communication

### Publications

2019	<b>Ground deformation due to steam cap processes at Reykjanes, SW-Iceland: Effects of geothermal exploitation inferred from interferometric analysis of Sentinel-1 images 2015-2017</b>
	<i>Receveur, M., Sigmundsson, F., Drouin, V., Parks, M.</i> Geophys. J. Int , Vol 216 (3), 2183-2212

### Conferences

Nov. 2018	<b>Geoscience Society of New Zealand (GSNZ)</b>	Oral
	InSAR monitoring of ground deformation induced by geothermal production at Reykjanes, Iceland	
Apr. 2018	<b>Geothermal Cross-Over Technology Workshop, AAPG</b>	Poster
	InSAR monitoring of ground deformation induced by geothermal production at Reykjanes, Iceland	
Apr. 2018	<b>European Geosciences Union</b>	Oral
	Evaluation of the response to production of the Reykjanes high-temperature geothermal reservoir, Iceland, using InSAR studies of ground surface deformation	

## Extra-Curricular Activities

Sport	Football, Hiking, Running
Travel	Iceland, Italy, New Zealand, Great Britain, Netherlands, Poland, Spain, Belgium
Music	Piano, Guitar, singing
Association	2015: Vice-president of the student council (UniLaSalle Beauvais) 2014: Treasurer of Geode Association (UniLaSalle Beauvais)

## references

F.Sigmundsson	<b>Research Professor</b>	University of Iceland
	fs@hi.is	
V. Hamm	<b>Hydrogeologist Project Manager</b>	BRGM, France
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C. McDermott	<b>Professor in Hydrogeology</b>	University of Edinburgh
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December 3, 2019

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