



# Gabrielle SEIGNEMARTIN

Born on 16/12/1990 in Oyonnax (01) - FRANCE

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***Specialty: fluvial geomorphology and pollution of anthropized river***

## DEGREES AND QUALIFICATIONS

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### Degrees

**2014-2020 – Ph.D. in Geography and Urbanism – specializing in hydrogeomorphology**

Lumière University (Lyon 2), UMR5600 – Environment, City, Society Laboratory - Lyon (69) - FRANCE

***Title: Contemporary evolution of the Rhône River "Girardon dike fields": geohistoric approach based on morpho-sedimentary, geochemical and phytoecological indicators***

Thesis supervised by Hervé PIÉGAY, Research Director, CNRS, University of Lyon

**2013-2014 – Master's Degree COGEVAL'EAU ("Knowledge, Management, and Enhancement of Continental Aquatic Spaces") - with Honors**

Lumière University (Lyon 2), Bron (69) - FRANCE

**2011-2013 – Master's Degree in History, Philosophy, and Didactics of Sciences, specialization in History - with Honors**

Claude Bernard University (Lyon 1), Villeurbanne (69) - FRANCE

**2011-2013 – Master's Degree in Ecological Sciences, Microbiology - Specialization in Ecological Sciences**

Claude Bernard University (Lyon 1), Villeurbanne (69) - FRANCE

**2008-2011 – Bachelor's Degree in Organism and Population Biology**

Claude Bernard University (Lyon 1), Villeurbanne (69) - FRANCE

### National Council of Universities qualifications

**December 2021: SECTION 23 - PHYSICAL, HUMAN, ECONOMIC AND REGIONAL GEOGRAPHY**

## RESEARCH ACTIVITIES

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### Postdoctoral Positions

► **February 2023 to January 2024** - Effect of diversion dams on the Rhône River on sediment deposition patterns in alluvial plains. Characterization of the grain size, radionuclides, and POPs contamination in aquatic sediment cores from the Rhône River" - Rhône Sediment Observatory (OSR 6).



Laboratory of Ecology of Natural and Anthropized Hydrosystems (LEHNA) – CNRS UMR 5023, Team "Impact of Developments and Pollutants on Hydrosystems" (IAPHY), ENTPE, Vaulx-en-Velin (69).

► **April to November 2022** - Geohistorical and geophysical characterization of sedimentary deposition environments to better understand the contamination signal of radionuclides, microplastics, and critical metals carried by cores from seven French hydrosystems - ANR TRAJECTOIRE project led by the Institute for Radiological Protection and Nuclear Safety. Laboratory LEHNA – CNRS UMR 5023, Team IAPHY, ENTPE, Vaulx-en-Velin (69).

► **May 2021 to March 2022** - Effect of corrective engineering works on the Rhône River on sediment deposition patterns in alluvial plains - Characterization of grain size, radionuclides, and POPs contamination in sediment cores (terrestrial and semi-aquatic) from the Rhône River" - Rhône Sediment Observatory (OSR 5). Laboratory LEHNA – CNRS UMR 5023, Team IAPHY, ENTPE, Vaulx-en-Velin (69).

**Research Engineer Positions**

► **December 2020 to March 2021** – Operational research for the "Characterization of gravel and fine sediment stocks in the Rhône River at Beaucaire and Bais-le-Logis" - Rhône Sediment Observatory (OSR 5).

EVS Laboratory - CNRS UMR 5600, ENS, Lyon (69).

► **June 2018 to February 2019** - Operational research for the "Characterization of metallic pollution in Rhône River sediments - Part 2" - Rhône Sediment Observatory (OSR 5).

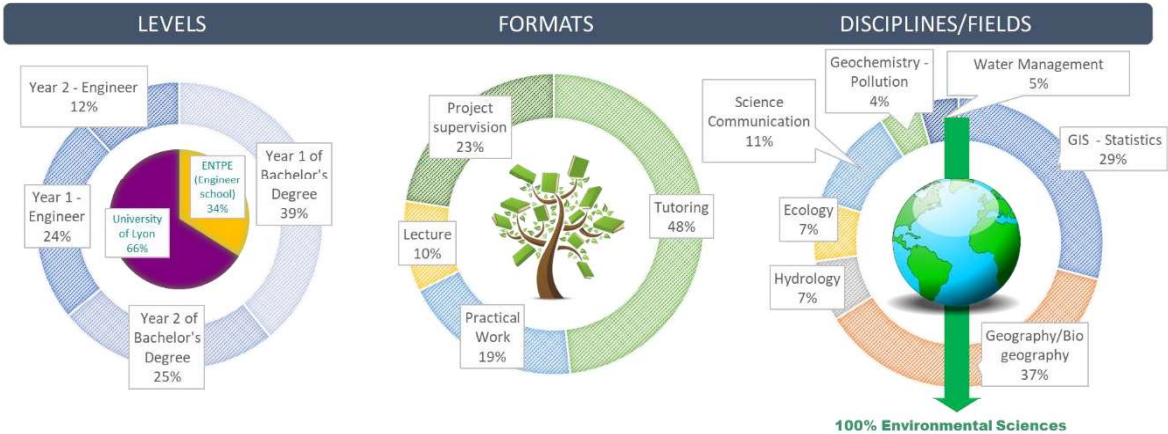
EVS Laboratory - CNRS UMR 5600, ENS, Lyon (69).

► **November 2017 to January 2018** - Operational research for the "Characterization of metallic pollution in Rhône River sediments - Part 1" - Rhône Sediment Observatory (OSR 4).

EVS - CNRS UMR 5600, ENS, Lyon (69).

**TEACHING EXPERIENCES**

221 HOURS OF TEACHING



► **SUPERVISION: 5 INTERNSHIPS FROM BACHELOR'S TO MASTER'S LEVEL**

## SKILLS & INTERESTS

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### COMPUTER TOOLS

-**GIS:** *ArcGIS, QGIS.*  
-**Statistics:** *RStudio, Excel*  
-**Computer-Aided Design, Images, and Photography:** *Inkscape, PhotoDirector*  
-**Word Processing and Presentation:** *Microsoft Office Suite*  
-**Bibliography:** *Zotero*  
-**Audio and Audio-Visual Editing:** *Movavi Video Editor, CapCut, and Protools*

### TECHNICAL SKILLS

► **On the field:** soil sampling, GPS survey, granulometry, flow measurement, topographic survey, electrofishing, RFID tracking, geological radar acquisition, riparian vegetation survey, etc.  
► **In the lab:**  
- Preparation and analysis of sediment cores (opening, description)  
- Preparation of sediment samples (granulometry, loss on ignition, mineralization)  
- Preparation of plant samples for Heavy Metal Analysis (sampling, mineralization)

### LANGUAGES

-French (native)  
-English: read, written, spoken

### INTERESTS

-**Hobbies:** writing, singing  
-**Sports:** cardio training, hiking, snorkeling, diving (beginner)

