

# COLIN FERRARI



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## PhD in water sciences, founder of Asean-Water

**LANGUAGES:** English and French (fluent), Spanish (B1 European level) and Cebuano  
**ADDRESS:** 20 Rue de la Faurie, 09240 La Bastide de Sérrou, FRANCE

### PROFESSIONAL EXPERIENCES

- 2022 - present Founder of "Asean-Water", water resource management and contamination remediation in Southeast Asia, development of isotopic tools for tracing sources of contamination and promotion of research on water (<https://www.asean-water.com>); Incubation within the University of Montpellier.
- 2019 Research internship: Fate of Arsenic and Selenium in groundwater in the Bekaa (Lebanon) and in an experimental environment (microfluidic system), *ISTerre, Grenoble & Université Libanaise, Beyrouth*
- 2016-2017 Mapping of practicable roads and paths in the south of the « Negros » island, *Philippines*

### EDUCATION

- 2019-2022 PhD in water sciences (geochemistry and quantum chemistry):  
« Stable Sb isotopes for tracing pollution sources and transfer processes in freshwater systems »,  
*HydroSciences Montpellier*  
PhD supervisor: Corinne Casiot  
Funding by ministerial scholarships
- 2017-2019 Master in Earth, Planetary and Environmental Sciences, specialized in Hydroresources, *Université Grenoble-Alpes, (UGA) & Institut Polytechnique de Grenoble, France*
- 2016-2017 Environmental Sciences, Master 1, *University of Philippines, Cebu, Philippines*
- 2013-2016 Bachelor in Geosciences, *UGA, Grenoble & Université Aix-Marseille*

### PUBLICATIONS (3 OTHERS SUBMITTED)

- 2021 Ferrari, C., Resongles, E., Freydier, R., Casiot, C., 2021. *A single-step purification method for the precise determination of antimony isotopic composition of environmental, geological and biological samples by HG-MC-ICP-MS*. Journal of Analytical Atomic Spectrometry 36, 776–785.  
<https://doi.org/10.1039/D0JA00452A>
- 2022 Ferrari, C., Resongles, E., Freydier, R., Casiot, C., 2022 'Equilibrium mass-dependent isotope fractionation of antimony between stibnite and Sb secondary minerals: A first-principles study', *Chemical Geology*, p. 121115. <https://doi.org/10.1016/j.chemgeo.2022.121115>.

### TEACHING

- 2019-2022 Teaching to bachelor and master students of the University of Montpellier: Earth System, Hydrogeology, Hydrology, Water Chemistry, Geology

### SKILLS

R, Python, ArcGIS, QGIS, Quantum Espresso, PHREEQC, FEFLOW  
Analytical chemistry: HG-MC-ICP-MS, ICP-MS, AAS, HPLC  
Geochemistry, Hydrology, Geology, Quantum Chemistry

## INTERNATIONAL CONFERENCES

- 2021 **Ferrari Colin**, Resongles Eléonore, Freydier Rémi, Casiot Corinne, Méheut Merlin.  
*Antimony isotopic fractionation in the environment: first insights from theoretical and experimental investigations.* Goldschmidt.
- 2021 Resongles Eleonore, Freydier Remi, **Ferrari Colin**, Zamora Gerardo, Casiot Corinne.  
*Antimony isotopic composition in stream waters impacted by acid mine drainage.* Goldschmidt.

## TEACHING QUALIFICATIONS

Inorganic chemistry  
Emerging contaminants  
Water chemistry

Environmental geochemistry  
Use of stable isotopes  
Contamination impacts on populations

## REFERENCES

*Laurent Charlet* : Professor in Grenoble Alps University, ISTerre  
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### PhD supervisors:

*Corinne Casiot*: Research director at CNRS, Hydrosiences Montpellier  
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*Eléonore Resongles*: Researcher at IRD (Research Institute for Development), Hydrosiences Montpellier  
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