

<b>Organisation name and website: Université Grenoble Alpes (UGA), <a href="https://www.univ-grenoble-alpes.fr/">https://www.univ-grenoble-alpes.fr/</a></b>	
<b>General Description</b>	The Université Grenoble Alpes (UGA, "Grenoble Alps University") is a public research university in Grenoble, France. Founded in 1339, it is the third largest university in France with about 60,000 students and over 3,000 researchers. ISTerre (Institut des Sciences de la Terre/Institute of Earth Sciences) is a joint research unit of UGA comprised of 300 people. In the last Shanghai Global Ranking in Earth Sciences, the University Grenoble Alpes is ranked 32nd in the world and in Earth sciences, UGA is ranked 24 <sup>th</sup> .
<b>Scientific group of reference</b>	The "Natural Hydrogen Observatory Group Grenoble" hosting the doctoral students is a transdisciplinary group, led by Professor Laurent Truche (geochemistry) and Frederic Victor Donzé (geophysics). More on: <a href="https://nativeh2project.osug.fr/">https://nativeh2project.osug.fr/</a>
<b>Key Research Facilities, Infrastructure and Equipment</b>	The Institute of Earth Sciences (ISTerre) is a leading laboratory for Grenoble's Universe Sciences Observatory (OSUG) whose research focuses primarily on the physical and chemical study of the planet Earth. By combining observations of natural objects, experimentation, and the modeling of complex phenomena, ISTerre strives toward a deeper understanding of Earth's major internal systems. Regarding the H <sub>2</sub> project: equipment is listed there (not exhaustive): <a href="https://nativeh2project.osug.fr/Field-laboratory-101">https://nativeh2project.osug.fr/Field-laboratory-101</a>
<b>Involvement in Research and Training Programmes</b>	<ol style="list-style-type: none"> <li>1. French national project: H<sub>2</sub>Kola (Sources, distribution and fluxes of hydrogen (H<sub>2</sub>) and associated gases in apaitic igneous complexes)</li> <li>2. Industrial collaboration: H<sub>2</sub> reactivity (microbial and abiotic) in reservoir and caprocks (Shell)</li> <li>3. Industrial collaboration: New exploration methods for natural hydrogen (H<sub>2</sub>): a study case of the western Pyrenean foothills (Total)</li> <li>4. PhD project: Identification and modeling of alpine geological environments fertile in native hydrogen</li> </ol>
<b>Publications/datasets/softwares/ Innovation Products/ other achievements</b>	<ol style="list-style-type: none"> <li>1. Lefeuvre, N., Truche, L., Donzé, F. V., Gal, F., Tremosa, J., Fakoury, R. A., ... &amp; Gaucher, E. C. (2022). Natural hydrogen migration along thrust faults in foothill basins: The North Pyrenean Frontal Thrust case study. <i>Applied Geochemistry</i>, 145, 105396.</li> <li>2. Lefeuvre, N., Truche, L., Donzé, F. V., Ducoux, M., Barré, G., Fakoury, R. A., ... &amp; Gaucher, E. C. (2021). Native H<sub>2</sub> exploration in the western Pyrenean foothills. <i>Geochemistry, Geophysics, Geosystems</i>, 22(8), e2021GC009917.</li> <li>3. Donzé, F. V., Truche, L., Shekari Namin, P., Lefeuvre, N., &amp; Bazarkina, E. F. (2020). Migration of natural hydrogen from deep-seated sources in the São Francisco Basin, Brazil. <i>Geosciences</i>, 10(9), 346.</li> <li>4. Donzé, F. V., Tsopela, A., Guglielmi, Y., Henry, P., &amp; Gout, C. (2020). Fluid migration in faulted shale rocks: channeling below active faulting threshold. <i>European Journal of Environmental and Civil Engineering</i>, 1-15.</li> <li>5. Truche, Laurent, Thomas M. McCollom, and Isabelle Martinez. "Hydrogen and abiotic hydrocarbons: molecules that change the world." <i>Elements: An International Magazine of Mineralogy, Geochemistry, and Petrology</i> 16.1 (2020): 13-18.</li> </ol>