
Elodie BOUCHER

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Experience

Environment - Graduate Intern *Denver CO (from France since December) 2012 - since September*
Institute for Environmental Solutions

- Created posters on Contaminants of Emerging Concern (CEC) for 6th grade students
- Participated to a workshop for 6th grade student on CEC pollution
- Synthesized information on a CEC called BHA (Butylated Hydroxyanisole)

Maths & Physics Tutor *Sherwood@home, Guérande, France* **2012** - 5 months

- Selected exercises & lessons to evaluate the level of 6 students (grades 7-12)
- Helped them to improve their comprehension

Geology Research Assistant *Univ. Joseph Fourier, Grenoble, France* **2009-2011** - 2 years

Tectonics:

- Created high-resolution satellite images (Landsat, SPOT) & DEM mosaics (290,000 mi. sq. area)
- Displayed geological and seismological information in a geo-database
- Created maps showing tectonic and seismological context of Mexico
- Selected sites for a geophysical survey via satellite imagery

Geophysics:

- Prepared information & dealt with logistics for a resistivity survey in central Mexico
- Collected, tested and controlled data quality on the field
- Performed a first analysis of resistivity data
- Compared data to geological and tectonic information

Geochemistry Research Intern *Univ. Joseph Fourier, Grenoble, France* **2009** - 6 months

- Prepared core samples from rock samples
- Analyzed core samples & interpreted their geochemical content
- Communicated results by a scientific publication (2nd author)

Geology Intern *BRGM, Marseille, France* **2008** - 3 months

- Reviewed rockfalls history of coastal cliffs of 4 cities
- Displayed information on those coastal cliffs stability in a geo-database
- Presented the proposed solutions to reduce rockfall risk via sketches and reports

Education

Master's Degree: Earth, Universe and Environment Science **2009**

University Joseph Fourier (UJF) & European Institute for Marine Studies (IUEM)

Related course work: seismology, signal processing, marine seismics, rock mechanics, active tectonics, geodesy, field work: near-surface geophysics

"Floating University" (Université Flottante) 1 month - **2008**

Scientific cruise (International Marine Global Change Study): *observed data acquisition (bathymetry & sediments sampling); cut, packed & labeled sediment cores*

University Degree: Earth and Universe Science **2007**

University of Western Brittany

Related course work: geophysics, structural geology, sedimentology, marine geology, field work: near-surface geophysics & mapping

Additional information

- Native French speaker, fluent in English, knowledge in Spanish
- Knowledge of bash, basics in perl / Basic programming knowledge (Matlab) / Knowledge of GIS softwares (Erdas ER Mapper, MapInfo) / Basic knowledge of signal processing software (Mustig)