

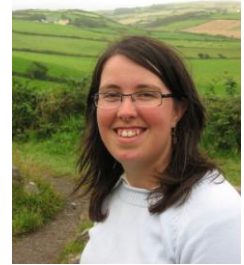
**QUENTEL Elise** (26 years old) - French citizen

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**Specialities: marine geosciences, marine geophysics, physics oceanography**  
**Career intention: Seismic oceanography research (France and foreign countries)**

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## EDUCATION

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- 2009 PhD in marine geophysics and physics oceanography (third year)**  
Université de Bretagne Occidentale (Brest, France). European Institute of Marine Studies
- 2005 Second Year of Master in Geosciences of Sedimentary Environments (Master 2 in Research),**  
Université des Sciences et Technologies (Lille I, France).
- 2004 First year of Master in Earth and Universe Sciences (Maîtrise/ Master 1 in Research),**  
Université de Bretagne Occidentale (Brest, France).
- 2003 Licence 3 in Earth and Universe Sciences (Licence),**  
Université de Bretagne Occidentale (Brest, France).
- 2002 Licence 1 and 2 in Earth and Universe Sciences (DEUG),**  
Université de Bretagne Occidentale (Brest, France).
- 2000 Baccalauréat** with a speciality in Biological Sciences  
Lycée La Croix Rouge (Brest, France).

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## PHD

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**Title: Imagery of the thermohaline structure in the Gulf of Cadiz: Process of seismic and physical oceanographic data in the Mediterranean Water.**  
European project (STREP) GO (Geophysical Oceanography)

**Aims:**

- To restore thermohaline structure by reversal of seismic signals reflected on strong thermohaline gradients
- Study historical hydrologic and seismic data to test the method of reversal and show its applicability in the restitution of thermohaline structure
- Particular study of the mixing process of the veins of water and eddies present at the neighbourhood of the slope

**Assignments:**

- Information retrieval : Mediterranean Water, Meddies, Seismic Oceanography, mixing process
- Analysis of physical oceanographic data of SEMANE cruises
- Process of seismic reflection data of the academic cruise SISMAR and industrial TGS-Nopec
- Acquisition in the Gulf of Cadiz of seismic reflection data and physical oceanographic (XBT, XCTD, CTD) in a high spatiotemporal resolution (GO cruise / HMS Discovery – from 17<sup>th</sup> of April to 14<sup>th</sup> of May 2007)
- Valuation of the precision of reversal and capacity of the method to follow the quick evolution of the water masses
- Spectral analysis of the oceanographic data (Fourier transform, Wavelets transform)

**Communications:**

- Participation of workgroup of the GO project (Brest, Lisbon, Kiel, Vienna) (spokesperson of the University of Brest)
- Presentation of posters in the European congress of EGU (Vienna, April 13-19, 2008)
- Talk in the first ESF Exploratory Workshop in Seismic Oceanography (Begur (Spain), November 19-21, 2008)
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**Directors:**

- Marc-André Gutscher (UMR/CNRS 6538 – Domaines Océaniques)
- Xavier Carton (UMR 6523 – Laboratoire de Physique des Océans)

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## COMPETENCES

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Information retrieval (information watching)

Acquisitions of seismic reflection and oceanographic data

Process of seismic reflection data on Geovecteur (CGG) and SPW

Process of oceanographic data (XBT, XCTD, CTD)

Spectral analysis of the oceanographic data (Fourier transform, Wavelets transform)

#### Computing:

- Operating system: Windows et Linux
- Software: Géovecteur (Seismic process), SPW (seismic process), Generic Mapping Tools (maps edition), Matlab (computation), Illustrator, Photoshop
- office suite (Microsoft Office, Open Office)
- Internet

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### EXPERIENCES IN EARTH SCIENCES

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#### Research projects:

- **Study of geoaoustic properties of sediments of the Gulf of Cadiz – Relations between celerity, granularity and sedimentary processes.**(Master 2's work, Directors: Viviane Bout-Roumzeilles, Christian Gorini, Thierry Mulder and Thierry Garlan; Université des Sciences et Techniques de Lille, Université de Bordeaux 1, Service Hydrographique et Océanographique de la Marine – Brest, 5 months in 2005)
- **Characterisation of sedimentary filling of submerged palaeo-valleys of the Bay of Douarnenez (France).** (Master 1's work, Directors: Pascal Le Roy and Alain Le Herrissé; Université Bretagne Occidentale (Brest), 3 months in 2004)

#### Literature project:

- **Relations between geoaoustic properties, physic properties and sedimentary processes.** (Master 1's work, Directors: Christian Gorini, Thierry Garlan; Université des Sciences et Techniques de Lille, Service Hydrographique et Océanographique de la Marine – Brest, 3 months in 2004)

#### Field trips:

- **Onshore-Offshore project on sedimentology and tectonics.** Acquisition, processing and interpretation of seismic-reflection data, (Var deep sea fan) Villefranche/Mer South of France, 10 days in September 2004). R/V CNRS-INSU Téthys
- **Acquisition of seismic-reflection data in the Bay of Quiberon,** (continental shelf) (France, 3 days in April 2004). R/V CNRS-INSU Côte de la manche
- **Geological study of North America series :** a transect across the Western U.S; University exchange between the University of Purdue, Indiana, USA and the Université Bretagne Occidentale (15 days in May 2004).
- Tectonics, magmatism, metamorphism and stratigraphy studies in West of France (Britain) (4 days in 2003).
- **Stratigraphy and tectonics Study of a transect of the Crozon's peninsula,** Crozon, west of France. (3 days in October 2003).
- Study field in magmatism, Chélade, Cantal (Massif Central) (7 days in May 2003).
- Study field in sedimentology, Vesc (French Alps) (7 days in May 2003).

#### Personnal project:

- **Study of the measure of the celerity of sediments cores and comparaisn between celerity and granulometry.** Director: Thierry Garlan; EPSHOM, Brest, (1 month in July, 2004).
- **Description of sediments of the cores of the Bay of Douarnenez (Finistère, France).** Directors: Claude Augris and Pascal Le Roy; IFREMER, Brest, Université Bretagne Occidentale (15 days).

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### LANGUAGE

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French (Mother language)  
English (read, written and spoken)  
German (perfectible notions)

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### TRAINING

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Information retrieval (information watching)  
Management  
Geographic Information System  
Sauveteur Secouriste du Travail (lifesaver)

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### WORK EXPERIENCES

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Summers 2001, 2002, 2003: Agent Service Hospitalier in the radiology department of the Public Hospital of Brest (France).

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### HOBBIES

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Sports: jogging, walking, and rowing.  
Reading  
Music: Guitar.