Charles Troupin

Nationality: Belgian | Allée du 6-Août, 17, 4000, Liège, Belgium

LANGUAGE SKILLS

Mother tongue(s): FRENCH

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
SPANISH	C1	C1	C1	C1	C1
GERMAN	B1	B1	B1	B1	B1
CATALAN	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

WORK EXPERIENCE

10/01/2017 – CURRENT – Liège, Belgium
POST-DOCTORAL RESEARCHER – UNIVERSITY OF LIÈGE

Development of spatial interpolation tools applied to oceanographic data.
Oceanographic data analysis using in situ and satellite measurements.
Study of small-scale processes in coastal upwelling system.

17/03/2014 – 09/01/2017 – Palma, Spain
HEAD OF THE DATA CENTER FACILITY – BALEARIC ISLANDS COASTAL OCEAN OBSERVING AND FORECASTING SYSTEM (SOCIB)

- Management of the projects and staff.
- Relations with external users (national and European), data providers and other facilities.
- Development of applications for the access and visualisation of oceanographic data.
- Forecasting of extreme sea level events (*rissaga*) using time series.
- Acquisition and processing of satellite, remote-sensing data (wind, salinity sea surface temperature, chlorophyll concentra on).
- Analysis and interpretation of multi-platform observations (HF radar, satellite, fixed stations, mobile platforms).

01/03/2013 – 16/03/2014 – Esporles, Spain
POST-DOCTORAL RESEARCHER – MEDITERRANEAN INSTITUTE FOR ADVANCED STUDIES (IMEDEA) - UIB/CSIC

- Preparation of high-resolution altimetry products in the Mediterranean Sea (**MyOcean 2** project).
- Analysis of in situ and remote-sensed data in the Balearic Sea.
- Processing (interpolation, filtering) and interpretation of multi-sensor measurements (High-frequency radar, underwater glider, altimeter).
- Operational production of regional altimetry maps (satellite imagery).

10/01/2010 – 28/02/2013 – Liège, Belgium
POST-DOCTORAL RESEARCHER – UNIVERSITY OF LIÈGE

- Supervisor of the laboratory "*Microscopes*" for undergraduate students.
- Analysis of total-suspended ma er images on the North Sea.

- Spatio-temporal interpolation of satellite wind data.
- Improvement and testing of **DIVA** interpolation software tool.

01/10/2006 – 09/2010 – Liège, Belgium
PHD CANDIDATE – FUND FOR RESEARCH TRAINING IN INDUSTRY AND AGRICULTURE (NA ONAL FUND FOR SCIEN FIC RESEARCH, BELGIU

- Study of the upwelling filament off Cape Ghir (Northwest Africa).
- Hydrographic climatology for the North-East Atlantic Ocean.
- Implementation of the **ROMS** model at high-resolution around Cape Ghir and design of process-oriented experiments.
- Participation to the **CAIBEX** cruise onboard *Sarmiento de Gamboa* (summer 2009) off Cape Ghir and processing of the cruise data.

DIGITAL SKILLS

Fluid mechanics | Aerodynamics | Finite-Element Method | Atmospheric Physics | High-performance computing | Time-Series Analysis

Programming

Functional programming | Object-oriented programming | Unit testing | Control version system | Continuous integration

Programming languages

Julia | Python | LaTeX | MATLAB | Fortran | Bash | JavaScript | Tcl/Tk

Data analysis

Data visualisation | Spatial interpolation | Signal processing | Data quality control | Data mining | Statistics

Oceanography

Satellite Image Processing | Numerical simulation | Gliders | High-frequency radar