

# Charles Troupin · Data analyst & modeler – Engineer in Physics

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<http://ctroupin.github.io>

<https://github.com/ctroupin/>

<https://twitter.com/CharlesTroupin>

## Profesional experience



2017/01-present ..... **Post-doctoral researcher @ GHER (ULiège)**  
Deployment of a data interpolation tool in a Virtual Research Environment

2014/03–2017/01 ..... **Head of the Data Centre Facility @ SOCIB**  
Acquisition, processing and visualisation of oceanographic data

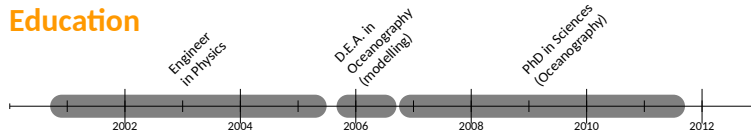
2013/03–2014/03 ..... **Post-doctoral researcher @ IMEDEA**  
Analysis of in situ, satellite altimetry and high-frequency radar data

2010/10–2013/02 ..... **Research assistant @ ULiège**  
Multivariate reconstruction of incomplete satellite images in the North Sea

2006/10–2010/09 ..... **PhD Candidate @ FRIA-FNRS**  
Study of the Cape Ghir filament using numerical modeling and data interpolation

List of publications: <https://ctroupin.github.io/CV/publicationList.pdf>

## Education



Engineering  
Fluid mechanics  
Aerodynamics

Finite-element method  
Numerical simulations  
High-performance computing

## Technical skills

### Programming

Functional programming  
Object oriented programming  
Test-oriented development  
Control version system (git, svn)  
Jupyter-notebooks  
Unit tests

Languages	2006	2009	2012	2015	2018
Bash					awk, makefiles, cron, git, ssh, regex, ...
Fortran					data I/O, format conversion, optimisation
MATLAB					geostatistics, plotting, neural networks
Python					matplotlib, numpy, scipy, pandas, virtualenv, ...
Julia					DataArrays, PyPlot, module developments
Javascript					Leaflet, Highcharts, D3, Angular, Reveal

Web HTML, CSS, markdown, javascript, Bootstrap, Jekyll, wordpress, Dokuwiki, Mediawiki

## Data analytics

Spatial interpolation Geostatistics Big data Predictive modelling Cloud computing Data visualisation  
Neural networks Signal processing Open data OGC standards

## Soft skills

**Project management:** Planning and monitoring · scientific and technical reporting · specification documents and strategic plans · team leading, recruitment · applications for grants and supports · lean and agile management

**Communication:** Presentations at international conferences (English, Spanish, French) · design of posters and leaflets (Darktable, GIMP, ImageMagick, Inkscape) · social networks · scientific outreach

**Organisation:** International scientific meetings (200 participants from 40 countries) · User training workshops

**Languages** ..... English ★★★★★ Catalan ★★★★★ Italian ★★★★★  
French (native) ★★★★★ Spanish ★★★★★ German ★★★★★ Dutch ★★★★★

## Personal interests

Photography Ultra and mountain running OpenStreetMap editing Travel blogging  
Road cycling Weather observation & forecast UrbEx Coaching