

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

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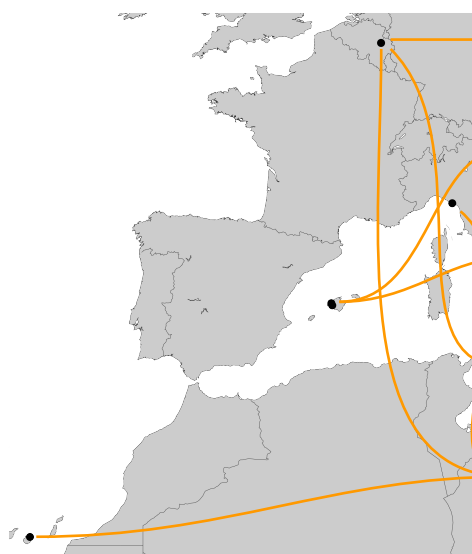
charles.troupin1

<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

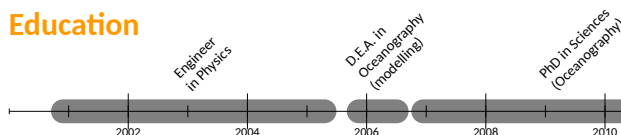
2013/03–2014/03 ..... **Post-doctoral researcher @ IMEDEA**  
Analysis of in situ, satellite altimetry and high-frequency radar data

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



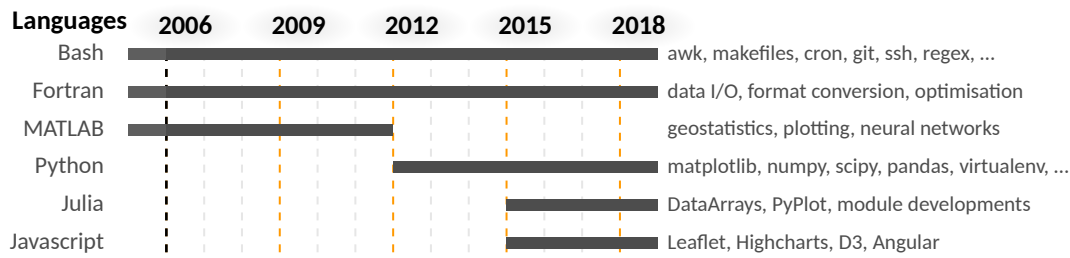
Engineering  
Fluid mechanics  
Aerodynamics

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



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 ★★★★★

## Job related skills

Analysis of observational data from multiple sources · Use, development and improvement of numerical forecast (ocean) models · Team work and collaboration with other groups

## Personal interests

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