

Charles Troupin · Data analyst & modeler – Engineer in Physics

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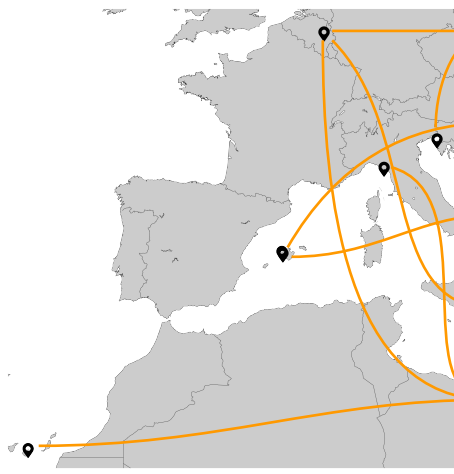
📧 charles.troupin1

🏠 <http://ctroupin.github.io>

🐙 <https://github.com/ctroupin/>

🐦 <https://twitter.com/CharlesTroupin>

Professional 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 and meteorological data

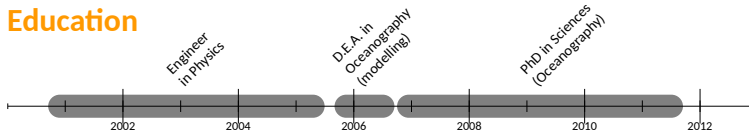
2013/03–2014/03 **Post-doctoral researcher @ IMEDEA**
Analysis of in situ, satellite altimetry and high-frequency radar data

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

Publication list: 📄 <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 Quality control

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-trail and mountain running 📍 OpenStreetMap editing 🗞 Travel blogging
🚴 Road cycling ☁ Weather observation & forecast 🏠 UrbEx 🎯 Coaching