Charles Troupin · Data analysist & modeler – Engineer in Physics

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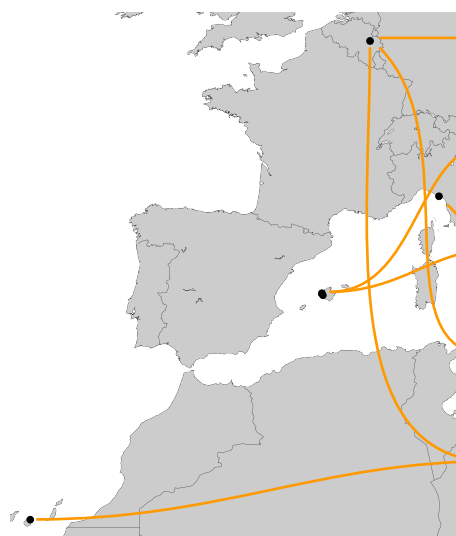🔗 https://www.linkedin.com/in/charlestroupin
🆔 http://orcid.org/0000-0002-0265-1021

Ⓢ charles.troupin1
🏠 http://ctroupin.github.io
🔗 https://github.com/ctroupin/
🐦 https://twitter.com/CharlesTroupin

Profesionnal 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**
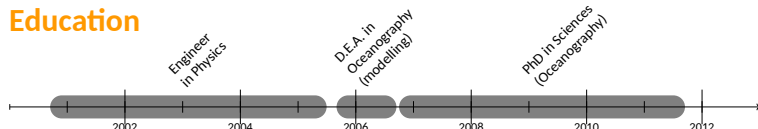*Analysis of in situ, satellite altimetry and high-frequency radar data*

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: http://ctroupin.github.io/ctroupin_publications.html

Education

Engineer in Physics · D.E.A. in Oceanography (modelling) · PhD in Sciences (Oceanography)

2002 — 2004 — 2006 — 2008 — 2010 — 2012

Engineering · Finite-element method
Fluid mechanics · Numerical simulations
Aerodynamics · 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

Web HTML, CSS, markdown, javascript, 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 · scienfic outreach

Organisation: International scientific meetings (200 participants from 40 countries) · software 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