Charles Troupin · Data analyst & modeler · Engineer in Physics
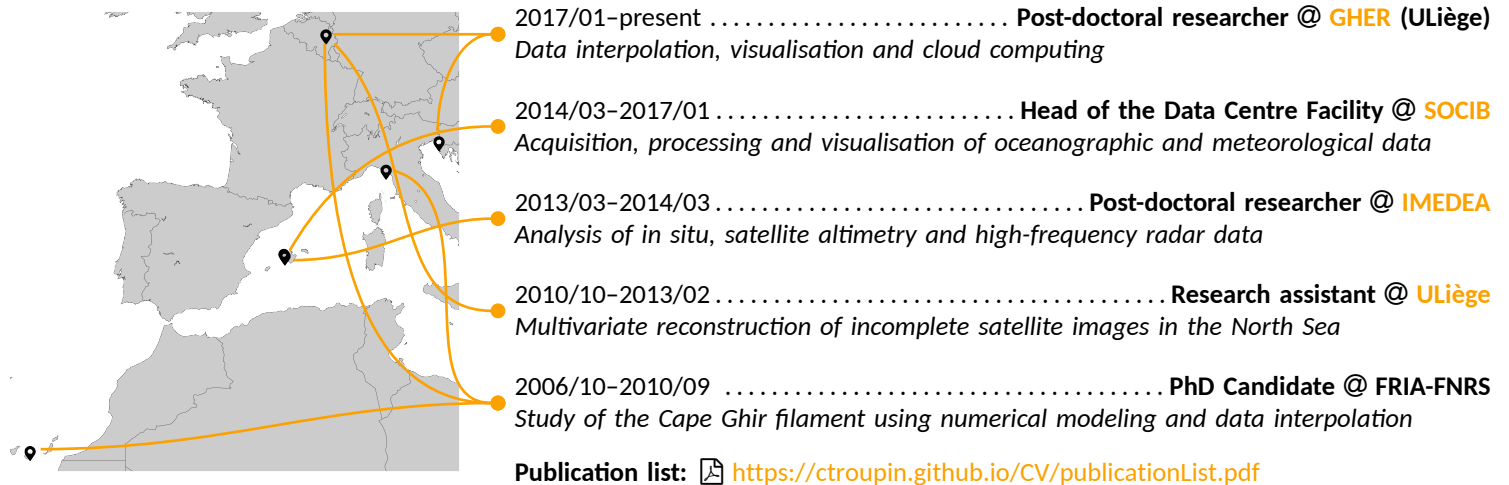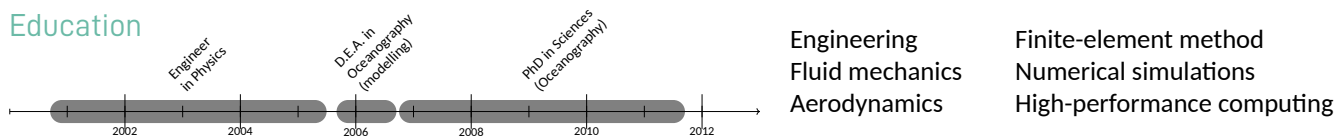
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✉ ctroupin@protonmail.com   🏠 http://ctroupin.github.io

🌱 https://gitlab.com/ctroupin   💾 https://github.com/ctroupin/

◎ http://orcid.org/0000-0002-0265-1021   🐦 https://twitter.com/CharlesTroupin

Professional experience

2017/01–present .... **Post-doctoral researcher @ GHER (ULiège)**
Data interpolation, visualisation and cloud computing

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   Finite-element method
Fluid mechanics   Numerical simulations
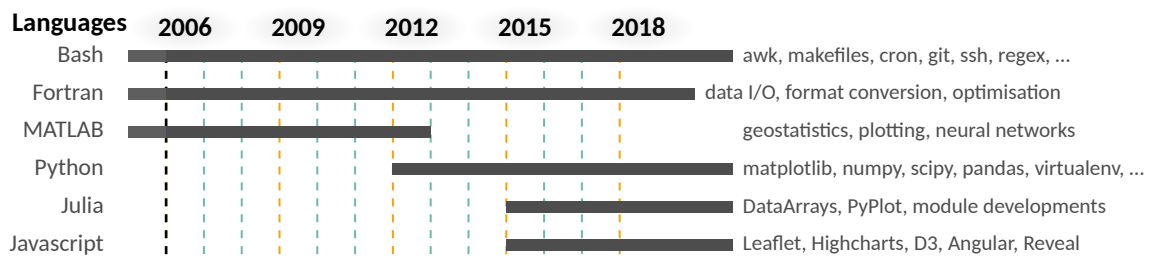Aerodynamics   High-performance computing

Technical skills

Programming

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

Languages	awk, makefiles, cron, git, ssh, regex, …
Bash	
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

Data analytics

[Spatial interpolation] [Geostatistics] [Big data] [Predictive modelling] [Cloud computing] [Data visualisation]
[Neural networks] [Signal processing] [Open data] [Quality control]

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

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 . . . French (native) ★★★★
English ★★★☆   Spanish ★★★☆
Catalan ★★☆☆   Italian ★☆☆☆
German ★☆☆☆   Dutch ½☆☆☆

Personal interests

📷 Photography   ⚡ Ultra-trail and mountain running   📍 Maps   Ⓦ Travel blogging
🚲 Road cycling   ☁ Weather observation & forecast   📈 UrbEx   Coaching