Charles Troupin · Data analysist & modeler – Engineer in Physics

- +32 498 155 998
- charles.troupin@gmail.com
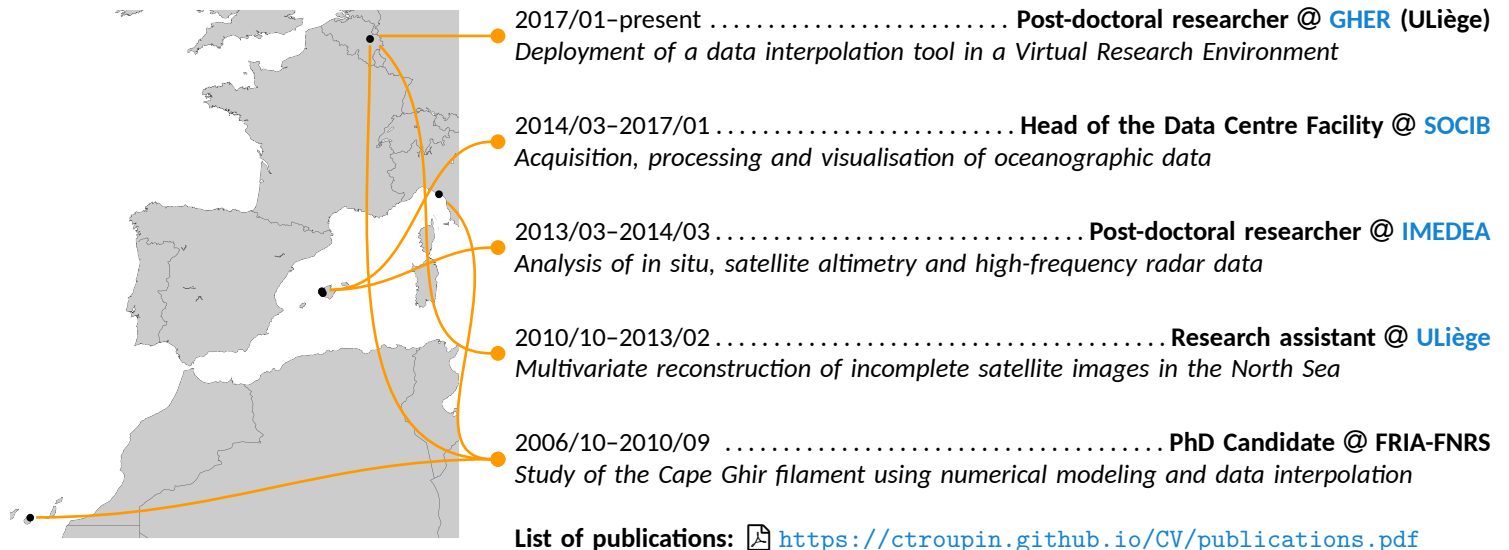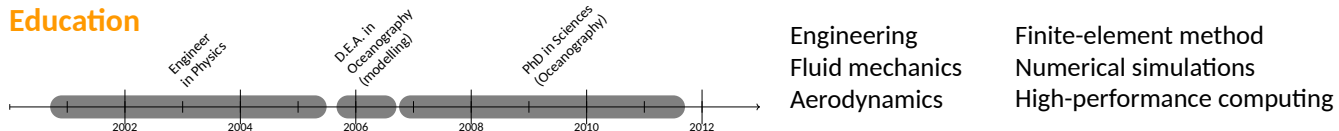- https://www.linkedin.com/in/charlestroupin
- http://orcid.org/0000-0002-0265-1021
- charles.troupin1
- http://ctroupin.github.io
- https://github.com/ctroupin/
- https://twitter.com/CharlesTroupin

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: https://ctroupin.github.io/CV/publications.pdf

Education

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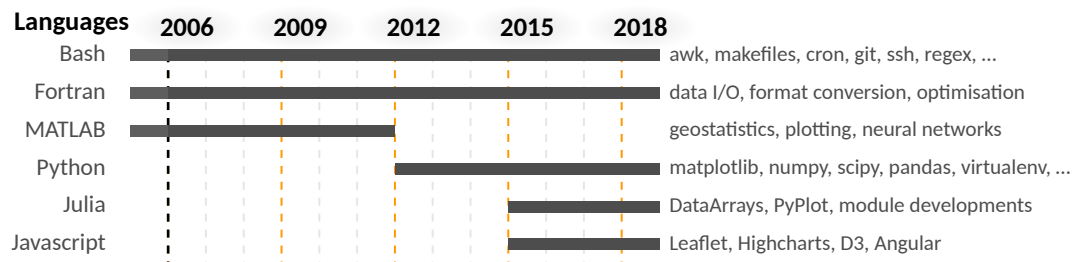Finite-element method
Numerical simulations
High-performance computing

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

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 · scienfic outreach

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

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

Personal interests

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