Charles Troupin · Data analysist & modeler – Engineer in Physics

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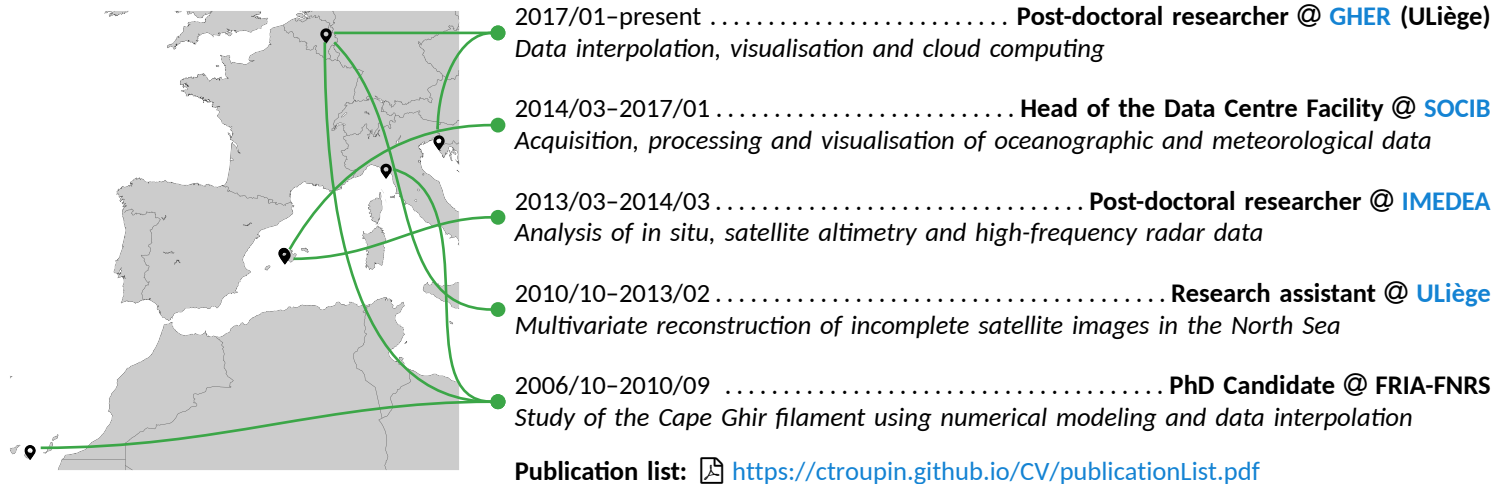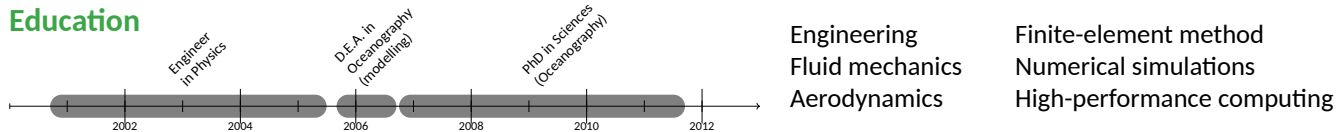in https://www.linkedin.com/in/charlestroupin
ⓘ http://orcid.org/0000-0002-0265-1021

🅢 charles.troupin1
🏠 http://ctroupin.github.io
🄾 https://github.com/ctroupin/
🐦 https://twitter.com/CharlesTroupin

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
Fluid mechanics
Aerodynamics

Finite-element method
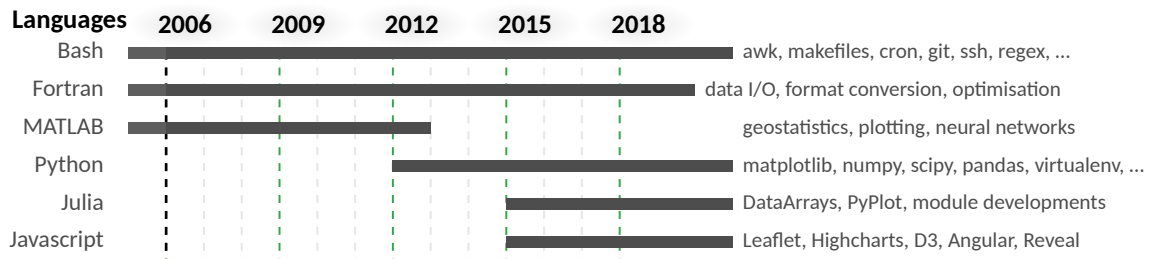Numerical simulations
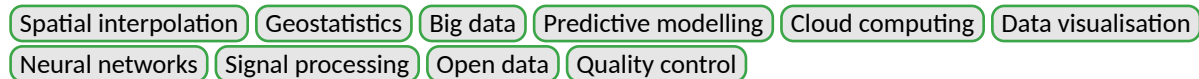High-performance computing

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
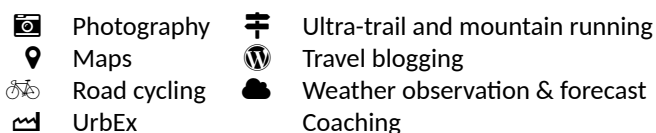
Soft skills

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 · scienfic 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

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📍	Maps	Ⓦ	Travel blogging
🚲	Road cycling	☁	Weather observation & forecast
📈	UrbEx		Coaching