Charles Troupin · Data analysist & modeler – Engineer in Physics

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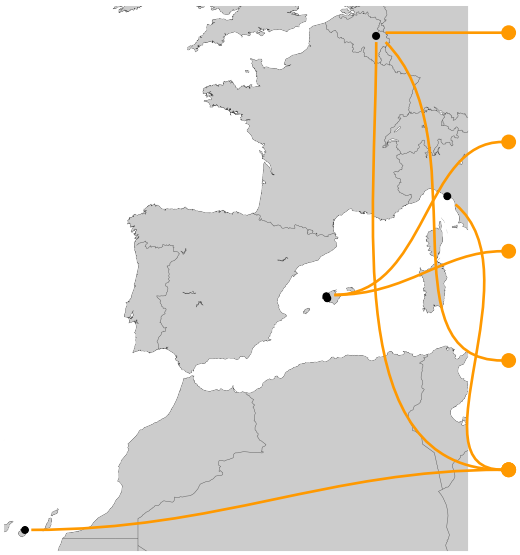
http://orcid.org/0000-0002-0265-1021

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

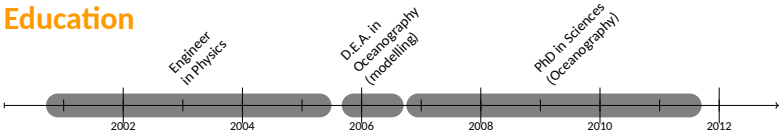
2013/03–2014/03 ..... **Post-doctoral researcher @ IMEDEA**
Analysis of in situ, satellite altimetry and high-frequency radar data

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/publicationList.pdf

Education



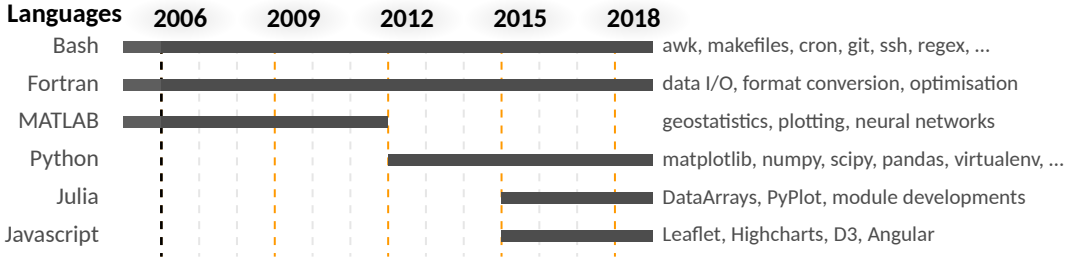
Engineering
Fluid mechanics
Aerodynamics
Finite-element method
Numerical simulations
High-performance computing

Job related skills

Numerical modelling · Spatial interpolation techniques · Web map services · Analysis of specific or extreme events · Reporting and communication · Versatility · Autonomy and fluid collaboration

Technical skills

Programming
Functional programming
Object oriented programming
Test-oriented development
Control version system (git, svn)
Jupyter-notebooks
Unit tests



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 ★☆☆☆

Personal interests

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