

Charles Troupin · Data analyst & modeler – Engineer in Physics

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🌐 <https://www.linkedin.com/in/charlestroupin>

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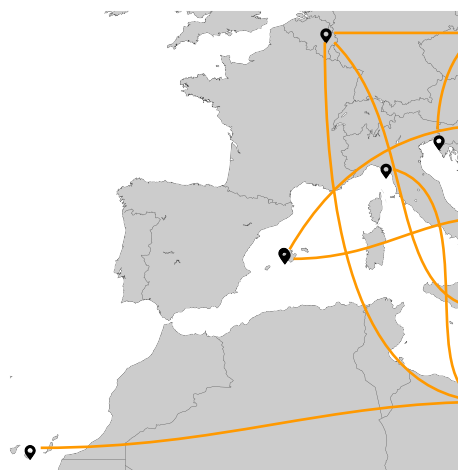
📧 charles.troupin1

🏠 <http://ctroupin.github.io>

🐙 <https://github.com/ctroupin/>

🐦 <https://twitter.com/CharlesTroupin>

Professional 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 and meteorological data

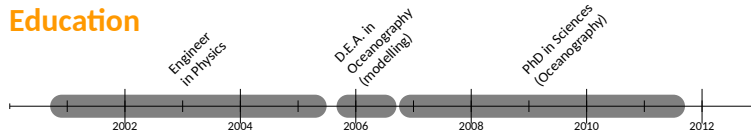
2013/03–2014/03 **Post-doctoral researcher @ IMEDEA**
Analysis of in situ, satellite altimetry and high-frequency radar data

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



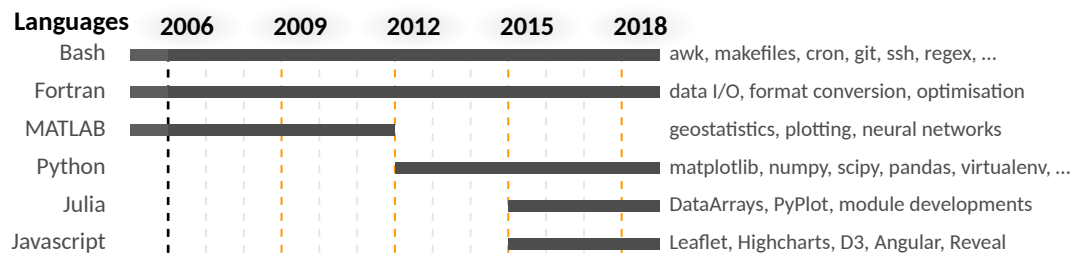
Engineering
Fluid mechanics
Aerodynamics

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



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 · scientific 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 · 🏃 Ultra-trail and mountain running · 📍 OpenStreetMap editing · 🗞 Travel blogging
🚴 Road cycling · ☁ Weather observation & forecast · 🏠 UrbEx · 🎯 Coaching