## Charles Troupin · Data analyst & modeler · Engineer in Physics +32 498 155 998 charles.troupin1 http://ctroupin.github.io ctroupin@protonmail.com https://gitlab.com/ctroupin https://github.com/ctroupin/ http://orcid.org/0000-0002-0265-1021 (V) 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 Analysis of in situ, satellite altimetry and high-frequency radar data 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: A https://ctroupin.github.io/CV/publicationList.pdf Education Finite-element method Engineering Fluid mechanics Numerical simulations **Aerodynamics** High-performance computing Technical skills **Programming** Languages 2006 2009 2012 2015 2018 Functional programming Bash awk, makefiles, cron, git, ssh, regex, ... Object oriented programming data I/O, format conversion, optimisation Fortran Test-oriented development MATLAB geostatistics, plotting, neural networks Control version system (git, svn) Python Jupyter-notebooks matplotlib, numpy, scipy, pandas, virtualeny, ... Continuous integration 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 · scienfic outreach **Organisation:** International scientific meetings ( 200 participants from 40 countries) · User training workshops French (native) Languages English Spanish Catalan Italian **★**☆☆☆ German Dutch **₽ Personal interests** O Photography Ultra-trail and mountain running Travel blogging Maps **M** Road cycling Weather observation & forecast Coaching UrbEx