Charles Troupin · Data analysist & modeler · Engineer in Physics (2005) · PhD in Oceanography (2011)

+32 498 155 998 (Belgium)

 ${}^{\smile}$ charles.troupin@gmail.com

in https://www.linkedin.com/in/charlestroupin

ĺĐ http://orcid.org/0000-0002-0265-1021 +34 638 054 012 (Spain)

charles.troupin1

https://github.com/ctroupin/

https://twitter.com/CharlesTroupin

Recent employments

2017/01- Researcher

University of Liège (ULg). Liège, Belgium

Development of a user interface for data interpolation on a

cloud system and implementation of Web Processing Service

2014/03- Head of Data Centre facility

Balearic Islands Coastal Ocean Observing and Forecasting 2017/01

System (SOCIB) · Palma de Mallorca, Spain

2013/03- Post-doctoral researcher

2014/03 Mediterranean Institute for Advanced Studies (IMEDEA) ·

Esporles, Spain

Combined analysis of in situ, altimetry and HF radar data

2010/10- Research assistant

2013/02 University of Liège (ULg). Liège, Belgium

Reconstruction of incomplete satellite images in the North

2006/10-**PhD Candidate**

2010/09 GeoHydrodynamics and Environment Research (GHER) ·

University of Liège, Belgium

Study of the Cape Ghir filament using data analysis and

numerical modelling

Python (Julia) (Jupyter-notebooks) User training Leaflet Spatial data analysis OGC standards

Open data

Team leading Project management Data analysis Data visualisation Recruitment (Quality control)

Scientific outreach) Big data) Training

(Python) (Satellite image processing) Data analysis

Matlab Numerical modelling

Matlab (Bash) (Signal processing)

Multivariate statistics (Teaching)

(Data analysis)

Numerical modelling Fortran

(Spatial interpolation)

Process-oriented modelling Tcl/Tk Latex (Bash)

Oceanographic campaign Version control system

Skills and Competencies

Technical skills

Oceanography

Data analytics

Engineering

IT skills **Programming**

Web Other tools

Soft skills Management

Communication Organisation

Languages

Author or co-author of more than 20 articles on data analysis in international, peer-reviewed journals Quality control · Filtering · Data mining · Statistics · Predictive modelling · Format conversion

Fluid mechanics · Aerodynamics · Finite-element method · Atmospheric physics · Numerical simulations · Internal

product development · Signal processing · Optimization · High-performance computing

Spatial interpolation · Time-series analysis · Principal component analysis · Database management · Satellite im-

age processing · Singular events

Python: general (logging, virtualenv, unittest, regex), data analysis (numpy, scipy, pandas), geo-location (geopy, geoip, tweepy), data formats (json, netCDF4, csv, gpx, shapefiles), visualisation (bokeh, matplotlib, folium, plotly)

Matlab/Octave: data reading and processing, plotting, geostatistics, interpolation

Bash scripting: awk, cronjob, wget, ssh, ncftp

Other: Julia, Fortran 77, 90, Tcl/Tk, JavaScript (Leaflet, Highcharts), MySQL, PostgreSQL HTML, CSS, markdown, AngularJS, D3, javascript, Jekyll, wordpress, Dokuwiki, Mediawiki)

Version control (SVN, git) · LaTeX (documents, posters, presentations, leaflet) · Ocean-related software: Ocean

Data View, DIVA (spatial interpolation), DINEOF (spatio-temporal interpolation of satellite images) · Image pro-

cessing: Darktable, GIMP, ImageMagick, Inkscape, ffmpeg

Team leading · Planning and monitoring · Scientific and technical reporting · Adhering to deadlines · Writing

specification documents · Applications for grants and supports

Public presentations in international conferences · Social networking · User training · Design of posters and leaflets Co-organiser of the 48th International Liège Colloquium on Ocean Dynamics in 2016 (200 participants from 40

countries) · Main organiser of several editions of the Diva workshop from 2007 to 2013

Native speaker in French · Daily use of Spanish, English and Catalan in the most recent working environments

· Basic level in German

Personal interests

Photography · Trail and mountain running · Map editing (OpenStreetMap) · Travel blogging · Road cycling · Weather observation & forecast · UrbEx · Coaching