Juliette ORTET

PhD STUDENT - ENGINEER IN GEOMATICS

Specialized in remote sensing and radiative transfer

Adress

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Driver's license Full, clean

Professional experiences

Sept. 2020

Aug. 2024 PhD Student in environmental science

CESBIO - UQTR

"Observations of soil surface temperatures over the whole Arctic permafrost area using remote sensing"

PhD thesis in "co-tutelle": Centre d'Etudes Spatiales de la Biosphère (CESBIO) & Université du Québec à Trois-Rivières (UQTR)

Radiative transfer modeling - SMOS data - Permafrost - Python programming

Oct. 2019

July 2020 Design and development engineer

Magellium Artal Technologies

Operational maintenance services and project manager of the Overland project (Airbus)

Satellite imagery processing - IDL programming - Project management

Experiences in geomatics and remote sensing

Mar. 2019

Aug. 2019 5-month internship

European Southern Observatory, APEX/ALMA

"Improving atmospheric models and short-term forecasting capability of the water vapour above the Chajnantor plateau"

Implementation of a PWV forecasting code

Testing ATM (Atmospheric Transmission at Microwaves) model Radiative transfer modeling - Kalman Filter - Python programming

May 2018

Aug. 2018

13-week internship European Southern Observatory, APEX/ALMA

"A study of the influence of the historical snow accumulation and wind effects on the extended Chajnantor plateau"

mplementati on of an automated process for snow detection and qualification of the process thanks to ground truth campaigns

Spatial analysis - Sentinel-2 - Computational Fluid Dynamics - Batch scripting

Mar. 2018

May 2018 Development project

Géoportail (IGN) & Fondation Petzl

"Development of a web tool to map avalanche risk (Munter method)" Implementation of the "Yéti" calculation service on the IGN servers and

demonstrator web page: https://www.camptocamp.org/yeti Node.js - Web programming - Communication products (flyers, poster)

May 2017

Aug. 2017 10-week internship

French Mapping Agency (IGN)

Engineering and land surveying practicals

Satellite classification of vegetation, site investigation of a medieval bridge, 3D-mapping of a church, GNSS antenna qualification

Education

2018 - 2019	Master Degree in Physical Methods for Remote Sensing (MPT) Institut de Physique du Globe de Paris (IPGP) - Sorbonne Université Electromagnetic radiation, Optical & microwave radiometry, Radiative transfer
2016 - 2019	Engineering Master Degree in Geomatics French National School of Geographic Sciences (ENSG) Remote sensing, Geodesy, Photogrammetry, Land surveying, SIG, Cartography
2014 - 2016	Two year preparatory courses for competitive examination to enter Engineering Schools (Bachelor Level) Strasbourg specialized in Earth Sciences, Biology, Mathematics, Chemistry and Physics

Other experiences

Since 2020	Introduction to satellite imagery, Image format	el (L3)ENSG
Since 2019	Member of the ENSG former students' association (AAE) Community manager, round-tables organization	ENSG
Since 2017	Temporary worker for the ENSG communication unit Student fair, popularization of geomatics	ENSG
2017-2018	Secretary of the students' association 150 members, 78.000 euros of annual budget	ENSG
2013	French Youth Leadership Certificate (BAFA) Animation in summer camps for children between 3 and 11	Strasbourg

Main skills

Programming Python, Matlab, IDL, Fortran, Java,

Web (HTML, CSS, JavaScript, PHP, NodeJS)

Data

acquisition GNSS, total station, laser-scanner, LiDAR, levelling instruments

Data

treatment QGIS, QField, ArcGIS, MicMac, Orpheo ToolBox

Applications Microsoft Office, OpenOffice, LateX, Indesign, Inkscape

Languages

French ****

English ★★★★

German ★★★★★

Spanish ★★★★