

Romain Wenger

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EDUCATION

2023 Strasbourg	Faculty of Geography , <i>PhD in Remote Sensing and Geography - In progress</i>
2019 Strasbourg	Faculty of Geography , <i>Master degree in Geomatics, speciality in remote sensing, with mention</i>
2017 Strasbourg	Faculty of Geography , <i>Second year of a degree in geography</i>
2016 Illkirch	IUT Robert Schuman , <i>Professional Bachelor degree in computer programming, with mention</i>
2015 Illkirch	IUT Robert Schuman , <i>DUT in computer programming, with mention</i>
2012 Strasbourg	Gymnase Jean Sturm , <i>Scientist Baccalaureat</i>

PROFESSIONAL EXPERIENCE

01/2021 – 04/2021 Strasbourg	Faculty of Geography , <i>Temporary teacher</i> 18 hours of AI courses to the masters 2 OTG, GDT and EOST engineers, 4 hours of programming courses applied to the treatment of satellite images and geoprocessing to the masters 1 OTG
02/2019 – 08/2019 Strasbourg	Laboratoire Image Ville Environnement, CNRS , <i>Remote sensing and GIS internship</i> Providing techniques and methods to improve a processing chain to classify urban footprint using remote sensing images
06/2017 – 03/2019 Strasbourg	La Frituur , <i>Versatile employee - Student job</i> Taking and preparing orders, stock management, customer relationship
04/2018 – 06/2018 Strasbourg	Faculty of Geography , <i>Short research internship</i> Developing R script to download automatically MODIS images and extract pixels in arctic Rivers for DOC quantification due to melting permafrost
08/2015 – 08/2016 Selestat	Pearl Diffusion , <i>C# .NET developer</i> Developing modules for an existing .NET application
04/2015 – 07/2015 Quebec, Canada	Acces Savoir - Laval University , <i>Back and front end developer</i> Internship in Quebec for my degree in computer sciences. Developing an application in C# .NET for an association

SCIENTIFIC COMMUNICATIONS

Research paper concerning work started in Master 2

« Automated Urban Footprint Mapping Over Large Areas: a Method Implemented for Massive Streams of Sentinel Data », Will be submitted in early September 2021

Research paper concerning the first part of my thesis work submitted in Remote Sensing - MDPI

« U-Net feature fusion for multi-class semantic segmentation of urban fabrics from Sentinel-2 imagery: an application on Grand Est Region, France », submitted in August 2021

EARSel Joint Workshop (Oral presentation)

Wenger R. Michéa D., Puissant A., 2021, Automated Urban Footprint Mapping Over Large Areas: a Method Implemented for Massive Streams of Sentinel Data, EARSel Joint Workshop – Earth Observation for Sustainable Cities and Communities – 30th March to 1st April 2021 - Plenary 4, Urban Growth & Settlement, Liège, Belgium.

Poster presentation during doctoral school congress

« U-Net for multi-class classification using imbalanced dataset: Application on urban areas in Grand Est Region » - 9 February 2021

SKILLS

Python

Remote sensing treatments, GDAL, Numpy

Remote sensing

Remote sensing image processing

C#

.NET framework, web services, application

GIS

ArcGis, QGIS, ENVI, Photoscan, CloudCompare

Database management

SQL, Merise, UML, persistence

R

Statistics, remote sensing image processing

Machine Learning

Random forest, SVM, deep learning

LANGUAGES

French

Native



English

B2/C1



German

A2/B1



INTERESTS

Climbing (Bouldering, difficulty climbing), **Cycling**, **Iceland** (Iceland culture and geography), **Glaciology**, **Soccer**