

Romain Wenger *PhD Student*

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EDUCATION

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

PROFESSIONAL EXPERIENCE

11/2019 – present Strasbourg	Website Manager, Administrative position In charge of the LIVE (Laboratoire Image Ville Environnement - UMR7362) website for PhD students. Participation to the meetings for the total redesign of the laboratory website.
01/2022 – 04/2022 Strasbourg	Faculty of Geography, Temporary teacher 8 hours of AI courses to the masters 2 OTG, GDT and EOST engineers, 8 hours of programming courses applied to the treatment of satellite images and geoprocessing to the masters 1 OTG
01/2021 – 04/2021 Strasbourg	Faculty of Geography, Temporary teacher 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 (UMR7362), CNRS, Intern Providing techniques and methods to improve a processing chain to classify urban footprint using remote sensing images
06/2017 – 03/2019 Strasbourg	La Frituur, Versatile employee - Student job Taking and preparing orders, stock management, customer relationship
04/2018 – 06/2018 Strasbourg	Faculty of Geography, Short research internship 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, C# .NET developer Developing modules for an existing .NET application
04/2015 – 07/2015 Quebec, Canada	Acces Savoir - Laval University, Back and front end developer Internship in Quebec for my degree in computer sciences. Developing an application in C# .NET for an association

SCIENTIFIC COMMUNICATIONS

Doctoral school congress (Poster presentation)

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

Conference paper concerning the second part of my thesis work submitted in ISPRS

Romain Wenger, Anne Puissant, Jonathan Weber, Lhassane Idoumghar & Germain Forestier (2022) MultiSenGE : A Multimodal And Multitemporal Benchmark Dataset For Land Use/land Cover Remote Sensing Applications, ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, DOI: *In Press*

Living Planet Symposium (Poster presentation)

Wenger R., Puissant A., Weber J., Idoumghar I., Forestier G., 2022, Multimodal and multitemporal semantic segmentation and scene classification dataset for remote sensing applications, Living Planet Symposium, 23-27 May 2022, Bonn, Germany, 2022.

Research paper concerning the first part of my thesis work submitted in IJRS

Romain Wenger, Anne Puissant, Jonathan Weber, Lhassane Idoumghar & Germain Forestier (2022) U-Net feature fusion for multi-class semantic segmentation of urban fabrics from Sentinel-2 imagery: an application on Grand Est Region, France, International Journal of Remote Sensing, 43:6, 1983-2011, DOI: 10.1080/01431161.2022.2054295

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.

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 2022

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, nature climbing, big wall), **Cycling**, **Iceland** (Iceland culture and geography), **Glaciology**, **Soccer**