



# Martin Dautriche

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About me:

Application for Internship in the Science, Applications and Climate Department (16561) at ESA Φ-lab

## ● LANGUAGE SKILLS

Mother tongue(s): **FRENCH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## ● WORK EXPERIENCE

2021 – 2022 – Joensuu, Finland

### UNIVERSITY RESEARCH ASSISTANT – THE UNIVERSITY OF EASTERN FINLAND (UEF)

- Cluster Accuracy
- Implementation of Centroid Index in Python
- Work in an international environment in English

2020 – Vannes, France

### UNIVERSITY RESEARCH ASSISTANT – RESEARCH LAB IRISA

- Introduction to QGIS software.
- Initiation, acquisition (CNES PEPS Database) and pre-processing (MAJA Processing) of Sentinel-2 images.
- Introduction to the reconstruction of high-resolution satellite image time series with missing values using spatial,
- spectral and temporal similarities.

2020 – Vannes, France

### PROGRAMMER (INTERNSHIP) – REASEARCH LAB IRISA

- Generation of synthetic time series for the study of labeling errors in machine learning.
- Time profile generation and visualization
- Generation of labeling errors

- Implementation of Charlotte Pelletier’s thesis work in Python for publication via Github.

2017 – 2018 – Vannes, France

### **WEB DEVELOPER – RESEARCH LAB IRISA**

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- Modification and addition of functionalities to the «Neural Network Playground» tool allowing the visualization of the
- operation of learning machine algorithms.
- Added functionalities :
- Ability to read a custom data set from a file
- Addition of a new algorithm: Support Vector Machines (SVM)
- Algorithms used TensorFlow and SVM (study of concepts), languages used TypeScript, Javascript and HTML.
- Work in collaboration with IRISA researchers.

### ● **EDUCATION AND TRAINING**

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09/2022 – CURRENT – Salzburg, Austria

#### **MASTER'S DEGREE STUDENT IN COPERNICUS MASTER IN DIGITAL EARTH – Paris Lodron Universität Salzburg (PLUS)**

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**Address** Salzburg, Austria | **Website** <https://www.master-cde.eu/>

2021 – 2022 – Joensuu, Finland

#### **ERASMSUS+ EXCHANGE – University Of Eastern Finlannde (UEF)**

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- Development of a tool in python to calculate cluster accuracy (Project realized for the laboratory of the University of Eastern Finland)
- Project theme:
- Cluster validity
- Cluster accuracy
- Internal and external index for clustering

**Address** Joensuu, Finland

2020 – 2021 – Vannes, France

#### **BACHELOR OF COMPUTER SCIENCE – Université Bretagne Sud**

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- Development of a library management software
- Software engineering and project management
- C/C++ programming

**Address** Vannes, France

2020 – Chicoutimi, QC, Canada

#### **SEMESTER ABROAD – Université du Québec à Chicoutimi (UQAC)**

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- Mobile development, algorithmic, video game prototype development, software engineering.

**Address** Chicoutimi, QC, Canada

2018 – Rennes, France

#### **GIT TRAINING – Lab IRISA/INRIA**

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- Training in English of the GIT tool that allows versioning and keeping track of changes made to the project.

**Address** Rennes, France

2017 – 2020 – Vannes, France

## UNIVERSITY DEGREE IN COMPUTER SCIENCE – Université Bretagne Sud

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- Java Developer Training: Algorithmic Programming, Object Oriented Programming.
- Database Administrator: Design, SQL Queries.
- Training in web application development with database with the following languages: PHP, Javascript, HTML, CSS, SQL.
- System and network architecture: Linux system administration, CSH script development.
- Training in computer law and business economics.

**Address** Vannes, France

## ● DIGITAL SKILLS

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### My Digital Skills

Python | Object-Oriented Programming | Linux | Java | SQL | Web Development | Github | C and C++ | Algorithm Design | QGIS (base) | Software Development | Machine Learning | Deep learning | ArcGis

## ● CONFERENCES AND SEMINARS

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2018 – Rennes, France

### COMCYBER (Cyber Defense Command Ministry of the Armed Forces)

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- Participation in the DEFNET 2019 cyber security exercise.
- Skills acquired :
- Discovery of cyberdefense by the realization of a simulation of an attack.

## ● VOLUNTEERING

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2019

### Secours Populaire

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Nantes

- Help fitting out the new store to finance their actions, preparation of food parcels, food collection campaign, help to welcome the customers of the store.

2019

### Elan sport adapté

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Nantes

- Dancing with people with disabilities in order to help them to have a better image of themselves and to integrate them.

## ● HOBBIES AND INTERESTS

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### Waters Sports

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- Windsurfing (competitions, preparation for the French championship)
- Sailing (liveaboard)
- Swimming
- Stand-up paddle

- Surfing.

## Trekking

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- Trips (Cambodia, Tanzania, Indonesia)
- Nordic Walking,
- Mountain Biking
- Kilimanjaro Climbing.