

Diane MAILLOT TCHOFO

DianeMT@protonmail.com | [linkedin.com/in/diane-mt/](https://www.linkedin.com/in/diane-mt/)

EDUCATION

University Rennes 1 - ENSAI

Master in Applied Statistics : Public Evaluation & Decision Making

Rennes, France

Sept 2020 – April 2022

University Sorbonne Paris Nord

M1 Financial Engineering and Modelling

Villetaneuse, France

Sept 2019 – May 2020

University of Sheffield

Mathematics B.A, Year 3 (Erasmus)

Sheffield, United-Kingdom

Sept 2018 – May 2019

University of Caen

Applied Mathematics B.A, Year 1 & 2

Caen, France

Sept 2016 – May 2018

EXPERIENCES

Research Internship in Applied Statistics for the Industry

Laboratory ERIC (Lyon 1 & 2) / HALIAS

May 2021 – Sept 2021

Lyon, France

- Autonomous research in classification, segmentation and detection of oil spills, petrol and diesel, on high-resolution and high-dimensional satellite images.
- Adaptation of a generative adversarial network (GAN) architecture and design of a pipeline from image pre-processing to oil spills detection in marine areas. Code written and automated in Python, soon to be deployed commercially.
- *modules : scikit-learn, tensorflow, keras, openCV*

Internship in Data Science applied to Humanities

CNRS

April 2020 – June 2020

Oxford, United-Kingdom

- Database redesign via Access and Excel (VBA)
- Database processing via Access, MySQL and R to address the issues raised
- Visualisation of networks with Gephi software, compilations and interpretation of statistics on network graphs

PROJECTS

Academics | *R-SAS-Python*

2020-2021

- Web application for fully interactive data visualisation, mapping, graphing and statistical tables. ([FootEuro](#)). *Made with RShiny*
- Principal component analysis (PCA) of data in different clusters and prediction of the market value of a football player by statistical modelling (database of 18 000+ observations on 100+ variables). *Made with SAS*

Personal : [Mathéorie](#) | *RShiny*

May 2020 – Today

- Creation of a static web application to popularise the History of Mathematics and its protagonists; articles, videos, written anecdotes.

TECHNICAL SKILLS

Programming languages: R (RShiny, Tidyverse), Python (Matplotlib, Bokeh, Tensorflow, Keras, Scikit-learn), SAS, SQL, XML

Software: Excel (basics of VBA), Access, Gephi, Publisher, LaTeX, Word

LANGUAGES

French: native language

English: C2, bilingual

German: B1, conversational