

# Diane MAILLOT TCHOFO

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## EDUCATION

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### Masters in Applied Mathematics, Statistics

*Econometrics, Applied Statistics, Programming (Python, R, SQL)*

Sept 2020 – Sept 2022

*Rennes 1 University - ENSAI, France*

### BSc Year 3 Mathematics - Erasmus

*Inferential Statistics, Probability, Programming, Optimisation*

Sept 2018 – Mai 2019

*University of Sheffield, United-Kingdom*

### BSc Year 1 & 2 Applied Mathematics

*Algebra, Analysis, Microeconomics, Macroeconomics, Computer Science*

Sept 2016 – Mai 2018

*Caen, France*

## EXPERIENCES

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### Applied Statistics PhD Thesis in the Telecom Industry

*Orange Innovation / Institut Mines Telecom (Brest)*

Dec 2022 – now

*Lannion, France*

- Thesis subject : AI-based model conception for failure's classification and localization in optical networks.
- State of the art on alarm classification and failure prediction in optical transport network. State of the art on graph-based methods for machine/deep learning.
- Application of cascading clustering methods on live optical network data.
- Research article accepted for the European leading conference in optical communications ([ECOC23](#)), on a new 2-step alarm classification method.
- Academic supervisor : Prof. John Puentes, company supervisor : Ahmed Triki

### Applied Statistics Internship in the Telecom Industry

*Orange France*

Avril 2022 – Sept 2022

*Rennes, France*

- Research subject : research to improve customer service on the fibre network service and reduce the volume of interventions.
- Building learning/test/validation databases from the Orange DataHub and other governmental open source data.
- Application and definition of unsupervised and semi-supervised classification algorithms on very dense data.
- Definition of a prediction model for operator solicitation.

### Applied Statistics Research Internship in Geosciences

*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 (CBiGAN) architecture and design of a pipeline from image pre-processing to oil spills detection in marine areas. Code written and automated in Python, commercially deployed.
- Internship supervisor : Full Prof. Stéphane Chretien, [Internship report](#) (english).

## TECHNICAL SKILLS

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**Programming Languages** : Python, R, RShiny, SQL/HiveQL, SAS

**Platforms** : GitLab, Jira, GCP

**Software** : DBVisualiser, Excel (VBA), Access, Gephi, Jdemetra+, Office 365

## LANGUAGES

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**French** : Mother tongue

**English** : C2, professional proficiency

**German** : A2, everyday communication

## HOBBIES

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**Creative sound editing and design** : 2 years and counting, my creations : [anchor's page](#)

**Football** : 11 years and counting

**Wood carving** : 2 years and counting