



## VALENTIN GARNIER

### Data Science Internship

#### CONTACT



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[valentingarnier.com](http://valentingarnier.com)

#### Hello, Bonjour, Ciao

**French** : Native  
**English** : C1 Level  
**Italian**: Notions



#### TECHNICAL SKILLS

Python / Pandas / Scikit Learn / Numpy  
PySpark / Spark  
SQL / Database Systems / Hive  
Machine Learning / Deep Learning  
Java / Scala  
Swift / SwiftUI  
HTML / CSS / Bootstrap / Django  
Agile Method: Scrum



#### INTERPERSONAL SKILLS

Teamwork / Autonomous  
Curious / Creativity  
Communication  
Leadership

#### INTERESTS

Data Science / Machine Learning  
Mobile app development  
Soccer  
Wakeboarding / Surf  
Music / Guitar

## ABOUT ME

I am from Tahiti and I moved to Switzerland for my studies. I am studying Data Science and Entrepreneurship at EPFL. I aim to be better at statistics than any software engineer and better at software engineering than any statistician! I am looking for Data Science / Machine Learning internships.

## PROJECTS

### November 2020 - January 2021 | DATA ANALYSIS PROJECT | EPFL

Made a creative extension analysis of a research paper on mobility data. Opportunity to deepen my skills in data analysis, data visualization and how to present results under a data story. <https://valentingarnier.github.io>

### April 2020 | The Curve - PERSONAL PROJECT

Decided to develop a hackathon idea and organized a live festival in two weeks during the first lockdown. Gathered around 3000 dollars for a charitable organization.

### February 2020 - June 2020 | DATA SCIENCE PROJECT | EPFL

Wrote a Spark application in Scala able to diagnose Spark applications that failed. Learnt how Spark and the YARN Resource Manager work in great details.

### February 2020 - June 2020 | LAB IN DATA SCIENCE | EPFL

Development of a robust journey planner for the Zurich area. Great opportunity to learn more about PySpark, Hive and apply graph algorithms on a real life problem.

### October 2019 - December 2019 | MACHINE LEARNING PROJECT | EPFL

Development of a recommender system with a dataset containing user - movie ratings. Opportunity to improve knowledge in Python (pandas, numpy, scikit learn) and discovery of a new python library (Surprise). Ranked 8th on the aicrowd platform.

### February 2019 - June 2019 | DATABASE SYSTEMS PROJECT - AIRBNB DATASET | EPFL

Implementation of a database system based on Airbnb's dataset. Development of a user-friendly application. Had the opportunity to master python (scripts, pandas), mongoDB, Oracle, SQL. Made complexe queries on the database.

## WORK EXPERIENCE

### February 2021 - now | Teaching Assistant | Practical Programming in Python

Help the teacher with teaching material and help students to succeed the course by leading exercise sessions. The course has over 250 students.

### September 2019 - September 2020 | Communication Assistant | EPFL - IC Communication

Had to ensure good content on different social medias: Instagram, Twitter Facebook and LinkedIn. Responsible for writing articles about events happening on the campus, and interviewing people related to computer science.

### February 2019 - June 2020 | Private Tutor | EPFL

Private tutor for individual students at EPFL in various faculties. Ran tutoring sessions in Algorithms, Analysis and Linear Algebra.

### April 2019 - September 2020 | Teaching Assistant | Code & Internet for Girls

Organizer of the Code & Internet for Girls course. It allows girls from 9 to 12 to build a website and a little game using Scratch.

## EDUCATION

September 2019 - Today | Master in Data Science with minor in Management & Entrepreneurship – EPFL

September 2015 - July 2019 | Bachelor Degree in Computer Science – EPFL

I did my bachelor semester project at SPRING lab under the direction of Carmela Troncoso on DNS privacy. Development of defenses against website fingerprintability.

June 2015 | High School Diploma in Science – Lycée Polyvalent de Taravao, Tahiti

I got my degree with highest honors in Tahiti, where I lived for a major part of my life.