

Experience _

Freepoint Commodities

Zug, Switzerland

SENIOR DATA SCIENTIST

Sep. 2024 - Present

- · Forecast wind and solar power production and power demand of EU countries (focus on coverage calibration and probabilistic forecast). Improved vendor forecasts on 7 days ahead time horizon by 8%.
- Lead team of 3 people (2 meteorologists + 1 IT) in the construction of the weather datalake from scratch based on the zarr archives and parquet (polars+duckdb).
- Leading team of 2 people and coordinating several analysts to standardize data structures on database.

DXT Commodities SA

Lugano, Switzerland Mar. 2019 - Jul. 2024

DATA SCIENTIST

- · Forecast 4Gw renewable portfolio power generation (wind, solar, hydro, consumption), power and gas demand of EU countries. • Automatic outage and outlier detection for dispatched power plants.
- · Algotrading system for Italian intraday market.
- Structured whole MLOps infrastructure (cookiecutter+Mlflow+Jenkins+Prefect)

UniCredit S.p.a Milan, Italy

QUANTITATIVE RISK ANALYST IN GROUP FINANCIAL RISK METHODOLOGIES

Apr. 2017 - Feb. 2019

- · Analysis of sensitivity of fixed income portofolios.
- Modelisation and implementation of regulatory risk measures (Expected Shortfall).

Education

Universitá di Bologna

Bologna, Italy

MASTER IN MATHEMATICAL FINANCE "CORSO ALTA FORMAZIONE FINANZA MATEMATICA"

Specialisation in Stochastic equations and Option pricing, Application of Montecarlo, quasi-Montecarlo and Fourier transform methods.

Paris Saclay Paris. France

MASTÉR M2 "ANALYSE, MODÉLISATION ET SIMULATION" SPECIALISED IN DISPERSIVE EQUATIONS Master Thesis: "Structure of global solutions for a damped Klein-Gordon equation".

Universitá di Pisa Pisa, Italy

BACHELOR DEGREE IN MATHEMATICS

Thesis: "Cauchy-Kovaleskaya's theorem"

Honors & Awards __

Scholarship "Prometeia", Master "Corso Alta Formazione Finanza Matematica"

Bologna, Italy

Full Scholarship "Fondation mathématique Jacques Hadamard", Mastér M2 AMS

Paris, France

Tech Skills

Programming languages Python (sklearn, torch, pygam, pandas polars, duckdb), SQL, VBA

Dashboard Streamlit (♥), Panel

MLOps Git, MLflow, Docker, Jenkins, cookiecutter, Prefect

Most used models Linear regression (♥), Catboost, Ensemble NeuralNet, GRU, Conformal predictions **Cloud computing** AWS

Hobbies

Dreams _

Drummer Funky, Indie rock **Board Games** Power Grid, Bang! (best player in the world)

> **Crochet** Mostly plants amigurumi **Opera** My favorite is La Cenerentola of course

Dunk at basketball Work in progress... almost there... **Skateboard** Ollie to get on sidewalk. Bake bread Failed attempts: 5 :'(✓ Kungsleden Complete full Kungsleden trail. ✓

JULY 8, 2025 Andrea Maioli · CV