

Fanny Rebiffé

Media

fanny.rebiffe.data@gmail.com fanny-rebiffe.github.io LinkedIn **Tableau Public**

Diploma

Master degree in Data Science **Engineering degree in Mechatronics**

Languages

French - Mother tongue

English - Fluent

Dutch – Beginner

Machine Learning

Python, R, Matlab, SQL, Linux, LaTeX, NumPy, Pandas, TensorFlow, Scikit-learn, Stable-Baselines, Gym, **Object Oriented Programming**

Mechatronics

PLC, Simulink, Robotics, Electricity, FEM, Mechanical design

Communication

Infographics, hands-on workshops, Public presentation, Popular science, Videos, Interactive dashboard

Data scientist & mechatronics engineer specialized in Machine Learning for the industry

I aim to contribute to bridging the divide between the industry and AI. My strongest assets include a pragmatic approach developed through my experience as mechatronics engineer, an expertise in data honed as a researcher and communication skills cultivated by a passion for graphic design.

Work experiences

2023 1.5 years MARIN, Maritime research Data scientist

- Trained a Reinforcement Learning agent for autonomous sailing (Linux, Python)
- Research on sim-to-real, evolutionary strategy, curriculum learning
- Implemented Supervised Learning models (Python) for hazard forecasting
- Designed a workshop to offer a hands-on experience to uninitiated publics

2017 3 years Jtekt, automotive supplier **R&D** engineer

- Cooperated with international stakeholders to design a consensual product
- Developed a physics-informed data-driven model (Matlab) to predict system performances based on fuzzy data (measurements, experiments, FEM)

Internships

Framatome, nuclear fuel design Data science trainee 2022 6 months

- Designed interpretable Reinforcement Learning for product design optimization
- Presented Machine Learning concept and project to uninitiated colleagues

2021 4 months Logicoss, medical software Data science trainee

- Developed data pipelines: cleaning, aggregation, anonymization, architecture
- ▶ Implemented Unsupervised Learning models (R) to describe accident causes

2021 2 months Walterre, heating management Data science project

Clustering and anomaly detection of heating systems

2016 6 months Tiama, robots manufacturer Mechatronics trainee

- Developed a physical (mass-spring-damper) model of an industrial robot
- Diagnosed & fixed vibrations issue by reprograming (PLC) the robot motors

2015 6 months SNCF, train maintenance Project management trainee

Benchmarked Machine Learning solutions for predictive maintenance

Personality

- Curious, I have developed my intercultural skills through a semester in Finland, bikepacking around Europe and working in the Netherlands for 2 years
- Team player and creative, I like to share my knowledge through visuallyappealing media (infographics, videos, interactive dashboard)
- ▶ I learn to be goal-oriented by practicing sports in competition (triathlon)
- I acquired a meticulous mindset by fulfilling the entire electrical renovation of my flat allowing me to obtain the Consuel certificate













