

# XAVIER DELFOSSE

## Data Scientist & Life Science Engineer

@xavier@windyplace.ch  
LinkedIn: xavier-delfosse-9a62731ba

+41 77 464 36 73  
delfoxav

📍 Lausanne, Switzerland



## EXPERIENCE

### Independent Contractor: Machine Learning and Data Science Specialist & Lead Data team

#### Tradepedia

📅 May 2024 – July 2025

📍 Remotely

- Designed and developed a reinforcement learning-based model for stock market analysis and prediction.
- Deployed MLflow for model tracking and versioning; served models via custom FastAPI endpoints.
- Mentored junior data scientists and managed team collaboration via GitHub.
- Assumed project management responsibilities, including backlog and roadmap planning.

### Bioprocess Development Scientist

#### Securecell AG

📅 Oct 2021 – August 2024

📍 Urdorf, ZH

- Developed and tested automated control strategies for mammalian and microbial cell cultures using real-time process data.
- Integrated convolutional neural networks and machine learning models into bioprocess pipelines.
- Authored and executed validation test plans for new bioprocessing products.
- Led various bioprocess experiments (cell culture and fermentation) and contributed to the Bioprocess 4.0 product roadmap.

### Internship: Scientist in Quality Control

#### Société Suisse des Explosifs

📅 2017 – 2018

📍 Gamsen, VS

- Worked daily as a Lab Scientist in a GMP environment.
- Led the integration of online analysis tools into the quality control lab's workflows.

## THESIS PROJECTS

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### Master Thesis

- "Implementation and usage of an electronic nose for the monitoring of bioprocesses," 2024.

### Bachelor Thesis

- "Characterization, optimization, and validation of an autosampling unit for microbial fermentation processes," 2021.

## EDUCATION

### M.S. in Applied Computational Life Sciences

#### Zurich University of Applied Sciences

📅 2021 – August 2024

📍 Wädenswil

### B.S. in Life Science Technologies option Biotechnology

#### HES-SO

📅 2018 – 2021

📍 Sion

## HOBBIES

### Sports

Bouldering, Biking, Roller Skating and Calisthenics

### Games

Competitive and certified judge for Pokémon TCG (2009–2022)

### Others

Homebrewer, hobbyist with Arduino and Raspberry, 3D printing

## SKILLS

Python R SQL Matlab PyTorch

TensorFlow Scikit-learn ML DL

RL NLP LLMs LangChain Langflow

MARL MLflow Git

MODDE LabX Lucullus USP DSP

PAT HPLC GC fermentation cell culture

PCR

Team leadership project ownership

Science Communication analytical thinking

## LANGUAGES

French

English

German

