



# Quentin HERVE

Data Scientist



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## Summary

Passionate data scientist specializing in data processing and the potential that artificial intelligence brings. Holder of a master's degree in Chemometrics and a PhD on the application of Deep Learning in quality analysis for the pharmaceutical industry.

## SKILLS

- Machine Learning
- Deep Learning
- Python / R
- Analytical Chemistry
- Office / LaTeX

## Interests

Spearfishing, Surf, Judo,  
Crossfit, Computer Science

## EXPERIENCE

### PhD Student, Ghent University

Gent, Belgium — 2020-2024

Development of an automatic inspection station to ensure the quality of a finished product using Computer Vision and Deep Learning tools. Simultaneously, project management and creation of solutions based on machine learning.

- Preparation of the image acquisition and preprocessing strategy.
- Screening of available classification and detection methods, as well as the required data structure.
- Deep Learning (CNN/RCNN/Yolo/SSD)
- Machine Learning (RandomForest, Decision Tree, XGBoost..)
- Development of monitoring solutions for bioprocess manufacturing using spectroscopic tools and machine learning

### Skillset and developed competencies

- Sickitlearn, tensorflow, PyTorch
- Jupyterlab / Jupyter Notebook
- Simca / Unscrambler and other spectroscopic software
- Project management through management of Master thesis projects and consulting projects for companies

### Master Thesis, Novartis

Basel, Switzerland — February 2019 - September 2019  
Introduction of a new calculation algorithm for reaction monitoring through Spectroscopy on Open-Source software (R & Python).

- Spectroscopic Data Science Algorithm development
- Statistical Process Control

### Master Thesis, GSK

Ware, England — January 2018- March 2018  
Development of Machine Learning methods to optimize raw material analysis as part of Quality Control

## EDUCATION

### MASTER 2 CACQ-OPEX

**UFR Sciences et Techniques** — 2017-2019  
Statistical Process Control, Analytical Chemistry, Process Optimization, Data science

## LANGUAGES

French (Native Language) / English (fluent) / Spanish (basic)