LUCA NYCKEES

Mathematician | Data Scientist | Software enthusiast

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♀ Lausanne, Switzerland

O Data Science Portfolio



WORK EXPERIENCE

Data scientist | Quanthome SA

August 2022 - present

 Applying a comprehensive data science stack (databases maintenance, data migration projects, machine learning engineering, workflow orchestration, CI/CD) - to applications focused on both financial and environmental data analysis as well as real estate market analysis. Responsibilities involved recruiting and supervising data science master students.

Research developer | Lab of Topology and Neuroscience, EPFL

August 2021 - February 2022

Q Lausanne. Switzerland

• Making a survey in computational geometry about zigzag persistence (a tool in topological data analysis used to study point-cloud data) and creating a Streamlit web application. 🔾

Data Science Intern | Lab of Topology and Neuroscience, EPFL

December 2020 - August 2021

Q Lausanne, Switzerland

• Studying and visualizing COVID19 tracing data through network and topological analysis. Creating an efficient pipeline and developing an interactive dashboard for data visualization.

Teaching assistant | Department of mathematics, EPFL

2020-2022

Q Lausanne. Switzerland

• Teaching duties for various 1rst, 2nd and 3rd year courses in the mathematics and informatics programs. These included group and individual tutoring, grading of exams and the creation of exercises.

ACADEMIC PROJECTS SELECTION

More information can be found in my Data Science Portfolio.

Statistical analysis of meteorological data | Python

Autumn 2021

♀ Chair of Statistics, EPFL

• Web application for forecasting meteorological data. 🗘

Graph label prediction for image classification | Python

Autumn 2020

SML course, EPFL

• Semi-supervised graph-based learning for image analysis. •

Deep learning for satellite image segmentation | Python

Autumn 2020

• Studying CNN architectures for image segmentation.

Topological data analysis with Morse theory | Python

♀ Topology Laboratory, EPFL

Implementing parametric Morse theory algorithms.

EDUCATION

Master degree in Mathematics

2020 - 2022

♀ EPFL, Lausanne

- Focus: statistical data analysis & topology
- Extra-credits in the program of the data science master (ML courses and projects)

Bachelor degree in Mathematics

2017 - 2020

♀ EPFL, Lausanne

• Focus on algebraic geometry.

COMPUTER SKILLS

LANGUAGES

Python – excellent

SQL - excellent

HTML/CSS/JS/TS - familiar

C++ - familiar

TOOLS/TECH

• Git Docker CI/CD

DATABASE

• SQL Postgres

WEB DEVELOPMENT

React HTML/CSS/JS Flask FastAPI Streamlit

MATH LANGUAGES

MATLAB

R LaTeX

TECHNICAL AREAS

Workflow orchestration

Machine learning engineering | CI/CD

Software engineering | Data architecture

Statistical Data Analysis

Graph Theory

LANGUAGES

- French mother tongue
- English bilingual proficiency
- **Italian** bilingual proficiency
- **German** limited working proficiency