LUCA NYCKEES

Mathematician | Data Scientist | Software enthusiast

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in Luca Massimo Nyckees

Characteristics
Quantities

+41 78 721 25 01

♀ 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. \bigcirc

Data Science Intern | Lab of Topology and Neuroscience, EPFL

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

ML course, EPFL

• Studying CNN architectures for image segmentation.

Topological data analysis with Morse theory | Python

♀ Topology Laboratory, EPFL

• Implementing parametric Morse theory algorithms. •

2020 - 2022

EDUCATION

♀ 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

Master 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

ML Deep Learning NLP Software engineering Data architecture Statistical Theory | Graph Theory Workflow orchestration | CI/CD

LANGUAGES

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