

LUCA NYCKEES

Mathematician | Data Scientist | Software enthusiast

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in Luca Massimo Nyckees

🔗 LucaNyckees

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📍 Lausanne, Switzerland

📁 Data Science Portfolio



WORK EXPERIENCE

MLOps Engineer | Quanthome SA

📅 September 2023 - present

📍 Lausanne, Switzerland

- In charge of machine learning operations (data and model versioning, continuous model monitoring, CI/CD, automation of deployment pipelines) in a young startup that digitalizes the real estate sector.

Data scientist | Quanthome SA

📅 August 2022 - August 2023

📍 Lausanne, Switzerland

- Leading machine learning engineering projects, recruiting and supervising junior data scientists, and working on database management in a young startup that digitalizes the real estate sector.

Research developer | Lab of Topology and Neuroscience, EPFL

📅 August 2021 - February 2022

📍 Lausanne, Switzerland

- Applied topology research on zigzag persistent homology. 🔗

Data Science Intern | Lab of Topology and Neuroscience, EPFL

📅 December 2020 - August 2021

📍 Lausanne, Switzerland

- Studying COVID19 contact tracing data with topological and statistical data analysis. Making a Docker-built web application.

Teaching assistant | Department of mathematics, EPFL

📅 2020-2022

📍 Lausanne, Switzerland

- Teaching duties for 1st, 2nd and 3rd mathematics courses.

ACADEMIC PROJECTS SELECTION

More information can be found in my [Data Science Portfolio](#).

Optimization machine learning for topological data analysis | Python

📅 Autumn 2020

📍 ML course, EPFL

- Making a **TensorFlow** framework for a topological metric. 🔗

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

- Weak-supervised graph-based learning for image analysis. 🔗

Topological data analysis with Morse theory | Python

📅 Spring 2021

📍 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 (focus on deep learning)

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

- machine learning deep learning NLP
- image analysis statistical theory
- environmental data analysis
- graph theory database management
- software engineering CI/CD MLOps

LANGUAGES

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