



Luca Nyckees

Born on 27/08/1999
Machine Learning Scientist
Ms. of Mathematics
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WORK EXPERIENCE

Machine Learning Scientist II

[Expedia Group](#)

03/2025 - present
Geneva, Switzerland

- Designing and developing pricing and recommendation models for vacation lodging.
- Contributed to the development of platform ideas and features tailored to client needs, enhancing business offering.

Data Scientist

[Quanthome SA](#)

08/2022 - 10/2024
Lausanne, Switzerland

- Led and delivered 6 machine learning projects, supervised a team of 4 scientists, collaborated with UNIL's CRML lab.
- Head of machine learning operations (complete ML models life cycle: validation, versioning, monitoring, deployment).

Data Science Intern

[Laboratory of Topology and Neuroscience of EPFL](#)

12/2020 - 02/2022
Lausanne, Switzerland

- Analyzed COVID-19 contact tracing data using topological, statistical and graph data analysis methods.
- Conducted research and development in the field of topological data analysis ([arXiv preprint](#)).

Teaching Assistant

[Mathematics Department of EPFL](#)

09/2019 - 06/2022
Lausanne, Switzerland

- Performed teaching duties for 1st, 2nd, and 3rd-year courses for the informatics and mathematics departments.

EDUCATION

Master of Science	Mathematics	Ecole Polytechnique Federale de Lausanne (EPFL)	2020-2022
Bachelor of Science	Mathematics	Ecole Polytechnique Federale de Lausanne (EPFL)	2017-2020

SELECTION OF PROJECTS

LLM-Powered Product Recommendation System

Implementing a LLM-powered recommendation system for Amazon products, with complete ML life cycle and workflow.

2024

[GitHub](#)

Optimization Framework for Topological Metrics

Creating a TensorFlow framework for computing a class of topological metrics, with applications to image classification.

2020

[GitHub](#)

Statistical Analysis of Meteorological Data

Developing a web application including an interactive dashboard for analyzing and forecasting meteorological data.

2021

[GitHub](#)

Graph Label Prediction for Image Classification

Implementing a weak-supervised graph-based learning algorithm with applications to image classification.

2020

[GitHub](#)

TECHNICAL SKILLS

Programming Languages: Python (excellent), SQL (excellent), C++ (proficient), JavaScript (familiar)

DevOps/MLOps: CI/CD, Github Actions, Pytest, Docker, Apache Airflow, MLFlow, FTP server, OpenSSH

Databases: PostgreSQL (PostGIS), data warehousing principles, ETL, SQLite, Snowflake, Neo4j

Data Processing/Data Analysis: Pandas, Spark, Polars, GeoPandas, Numpy, Dash, Matplotlib, Plotly, Pyvis, NetworkX

Machine Learning: Scikit-learn, Scipy

Deep Learning (DL, GenAI, LLMs): Pytorch, TensorFlow, Keras, Hugging Face, LangChain, OpenAI, RAG

APIs: REST, Flask, FastAPI

LANGUAGES

French (mother tongue), English (fluent), Italian (fluent), German (basic)

REFERENCES

Félix Arbez-Gindre: CTO at [Quanthome SA](#) | f.arbez-gindre@quanthome.com

Prof. Kathryn Hess-Bellwald: Head of the [Lab of Topology and Neuroscience at EPFL](#) | kathryn.hess@epfl.ch