

Oriane Kopp

Bioinformatician/Data Scientist

Professional experience and projects

Master's thesis

Inselspital, Bern

Feb. 2025 – Aug. 2025

Impact of contact lenses and pollen allergy on the ocular surface oculaire (under the supervision of Denise C. Zysset-Burri).

- Development of R scripts for data processing, analysing and visualisation
- Implementation of Machine Learning models (Random Forest, SVM) for sample classification
- Statistical analysis of metagenomic and proteomic data

Metagenomics research project

UniFR

Summer 2024

Evaluation of sourmash for metagenome analysis (under the supervision of Laurent Falquet).

- Use of a Linux-based cluster (cloud computing), Bash scripting
- Analysis of metagenomic sequencing data (k-mer based)

PBL in bioinformatics

UniNE

March 2023 – April 2023

Fungicide resistance and climate adaptation of *Zymoseptoria tritici* (under the supervision of Daniel Croll).

- Genome-wide association study (GWAS) on genomic data
- R programming for data analysis and visualisation
- Use of a computing cluster

Intern activity leader in a Nursing home

Jardins de la Plaine, Yverdon-les-Bains

Spring 2022

Education

Master's degree in bioinformatics and computational biology

UniFR & UniBE

2023-2025

- Data analysis and visualisation, bio/statistics, image analysis, programming in Python, R and Bash, machine learning, deep learning, artificial intelligence
- Genomics, metagenomics, transcriptomics, proteomics, epidemiology
- Additional 26 ECTS in physics, calculus, algebra and statistics
- Overall grade: 5.58/6

Bachelor's degree in biology and ethnology

UniNE

2020-2023

- Social sciences (ethnology, sociology, anthropology, political geography), life sciences (ecology, soil science, ethology, chemistry) and exact sciences (mathematics, statistics, multivariate analysis)
- Interdisciplinary topics: land-use planning, agroecology, biogeography, mapping of scientific controversies
- Overall grade : 5.13/6



Personal information

📍 Location: Fribourg, Suisse

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📞 Phone : +41791745582

💻 Portfolio : lieselty.github.io

🎂 Birthday : 26.09.01

🚗 Driver's license : Catégorie B

Skills

Languages : Python, R, Bash

Cluster : HPC, SLURM, Linux

Reproducibility : Conda, renv, Docker, Git

Data analysis : Statistics, Machine Learning, Deep Learning, Biostatistics, Data visualisation, Image analysis

Biological data : Genomics, Transcriptomics, Metagenomics, Proteomics, Epidemiology

Languages

French (native)

English (professional proficiency)

German (conversational level)

Hobbies

📖 Reading (Realm of the Elderlings)

🧶 Crocheting

🏍 Roller derby

🎮 Video games (Stardew Valley, PEAK)

♟ Board games

🥔 Sorting potatoes