Malek Senoussi, PhD

Data Scientist
Machine Learning Researcher & Engineer
Professor

Selected projects

Analysis of large-scale datasets
Develop models to classify single-cell RNA-seq data (+20K features), improving cell type and gene expression identification.

Interactive Data Visualization
Design and develop interactive visual dashboards using Plotly to simplify data exploration and interpretation.

Large-Scale model training on clusters
Deploy and train thousands of deep learning models on high-performance computing clusters, optimizing performance and resources.

Work experience

2025 — **Sailing**
Skipper and volunteer sailor for associations in Mediterranean

2024 ↑ 2020 — **PhD researcher**
at LIS and Centuri Laboratory, Marseille, France.
Research in Machine Learning applied to biology. Scientific publications in different fields: ✎Partial label learning, ✎Hierarchical novel class discovery and ✎Random walk.

2023 ↑ 2021 — **Supervisor of research internships**
at LIS, Marseille, France.
Co-supervision of research projects of students from engineering school and university.

2023 ↑ 2021 — **Professor in preparatory classes**
in Thiers High School, Marseille, France.
Oral examination in prep class MPSI

2020 — **Research internship**
at LIS, Marseille, France.
Mathematical modeling of the embryogenesis of *C. elegans*.

2018 ↑ 2017 — **Teacher in middle school**
in Chateau Forbin, Marseilleveyre, Sylvain Menu, Marseille, France.
Professor of Mathematics

Education

2024 — **PhD in Mathematics and Computer Science**
✎*Classification of single cell RNA sequencing.*
Aix-Marseille University
Keywords : Deep Learning, Machine Learning, Statistics.

2020 — **Master 2 Mathematics and Applications CEPS**
Aix Marseille University.
Theoretical skills: Probability and Statistics.
Applications: Statistical methods for Brain Imaging, Machine Learning theory, Statistics in Pharmacology.

Profile

Doctor in Mathematics and Computer Science applied to multidisciplinary and challenging environments. Quick to learn new technologies and committed to delivering high-quality results. Enjoys sharing knowledge and thrives in collaborative settings.

Contact

✉ malek.senoussi@gmail.com
☎ +33 6 20 93 01 08
⌂ **Geneva**

👤 Portfolio
in MalekSen
⌥ MalekSnous
G Malek Senoussi

Technical Skills

Languages & Tools
Python, SQL, Bash, Docker, Git

Libraries
PyTorch, Scikit-learn, NumPy, Pandas, Dask, Dash, Matplotlib, Seaborn

Domains
Deep Learning, Machine Learning, Data Analysis, Statistical Modeling, HPC

Languages

French	Native
English	Fluent C1
Italian	Basic B1

About me

Oud player performing Greek and Arabic music repertoires.
Passionate about sailing, Mediterranean culture, and traditional music.
Enjoys exploring new cultures through travels.