



Alexandre Jeanne

Quantitative Biology Engineer | Engineer's degree, Master of Science

Lausanne, Vaud, Switzerland

Contact

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<https://alexj16.github.io/> (My Website)

Top Skills

Deep Learning
Biotechnology
Data Science

Languages

French (Native or Bilingual)
English (Professional Working)
German (Limited Working)
Spanish (Elementary)

Publications

[Dynamic label-free analysis of SARS-CoV-2 infection reveals virus induced subcellular remodeling](#) (Nature Communications)

Summary

As a trained Quantitative Biology Engineer, my skills cover cell and molecular biology, data science, and artificial intelligence. I currently develop label free image analysis solution in order to create innovative products, to support internal and external collaboration, and to write scientific publications.

I hold a Master of Science in Biotechnologies from University of Strasbourg and an Engineer's degree in Biotechnologies from ESBS.

Experience

Nanolive SA

Quantitative Biology Engineer

February 2021 - Present (3 years 5 months)

Tolochenaz, Vaud, Switzerland

- Guiding the members of the laboratory in the field of quantitative biology and related computer vision strategies.
- Support internal or collaborative research projects.
- Provide ongoing support by advising and guiding the Nanolive teams in their communication on quantitative biology.
- Propose, create and test image analysis solutions based on a comprehensive study of the state of the art.
- Use these image analysis solutions to develop new biological applications based on customer requests.
- Write scientific publications illustrating the potential of the company's products.

Nanolive SA

Master' thesis

March 2020 - August 2020 (6 months)

Tolochenaz, Vaud , Switzerland

During my master's thesis at Nanolive, I focused on developing a Deep learning solution based on U-Net for cell segmentation in holotomography.

- Optimizing our training strategy by creating a relevant training and testing set.
- Applying data augmentation and image preprocessing.
- Compiling custom software and to implement U-Net capabilities.

Internships and training

PCBIS November 2019 - December 2019 (5 weeks)

Illkirch-Graffenstaden, France

Training in an High-Throughput screening platform. Enzymatic screening in an automatized lab and data analysis,

ACQUIFER Imaging July 2019 - August 2019 (2 months)

Heidelberg, Germany

Deep-learning for bioimage analysis in high content screening

CNRS UMR7242 July 2018 - August 2018 (2 months)

Illkirch-Graffenstaden, France

Preliminary study of a new epigenetic regulator in the cell.

Institute of Biology II May 2017 - August 2017 (2 months)

Freiburg-im-Breisgau, Germany

Expression of phytochromes in E.coli and molecular Characterization of purified photoactive phytochromes.

Education

ESBS

Engineer's degree, Biotechnologies · (2016 - 2020)

University of Strasbourg

Master of Science - MSc, Biotechnologies, High Throughput Analysis · (2018 - 2020)

La Martinière Duchère High school

Two-year intensive courses in Technology and Biology (CPGE), Biotechnologies · (2014 - 2016)