Contact

alexandrej16@gmail.com

https://www.linkedin.com/in/alexandre-jeanne-058a51135/(LinkedIn)
github.com/Alexj16 (Other)

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

Alexandre Jeanne

Quantitative Biology Engineer | Engineer's degree, Master of Science
Lausanne, Vaud, Switzerland

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 3 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
Engineer Intern (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.

ACQUIFER Imaging
Engineer Intern
July 2019 - August 2019 (2 months)
Heidelberg, Germany

My experience at Acquifer on the subject "Deep-learning for bioimage analysis in high content screening" taught me the basic of Machine Learning. My tasks consisted in:

- Developing objects detection solutions based on Haar Cascade Classifier.
- Developing objects detection and classification solutions based on CNN and using transfer learning.
- Developing KNIME workflow to automatize multistep data analysis on brightfield images.

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 · (September 2014 - 2016)