

BioImage Analysis

The DCSR team can help you with your image analysis pipeline. The person involved in this is **Arianna Ravera**, *Image Analysis and Machine Learning specialist*.

Support Overview

From a quick question or a quick opinion, to a long project conceived and structured together. Everything related to extracting information and data from your images can be discussed together.

Here are some of the main topics that we are usually asked about:

- Image pre-processing and enhancement
- Object detection and/or image *segmentation*
- Object *tracking*
- Quantifications (shape, dynamics, colocalization, and other properties)
- Clustering / classification of objects
- Visualization (rendering high-dimensional images, 3D images, etc.)
- Analytics (statistics of the extracted information).

Most of the analyzes carried out from us are programmed in **Python** as it is the most widespread programming language for the subject and is very fast and adaptive. (Please, if you're already familiar with Python, visit this very useful page: <https://bioimagebook.github.io/index.html>) But...

Software

If you are not interested or do not feel ready to experiment with code, we can use together some easy and intuitive software.

Here something you can checkout:

- **ImageJ** and Fiji- <https://imagej.net/imaging/segmentation>
- **CellProfile** - <https://cellprofiler.org>
- **QuPath** - <https://qupath.github.io>
- **Ilastik** - <https://www.ilastik.org>

Contact & Terms of support

Main contact: research-computing-fbm@unil.ch

Important: we distinguish two kinds of support:

- **service mode:** if you need quick help on a certain problem / if you need a suggestion, an information or similar - Submit a ticket to research-computing-fbm@unil.ch with subject: ***Service - *name of your department**** .
- **project mode:** if you have a more complex project that requires several weeks/months of work and you want to collaborate with us - Submit a ticket to research-computing-fbm@unil.ch with subject: ***Project - *name of your department**** .

Stay tuned: general info, scheduled events and meetings, or also to directly contact us, join **our Teams channel:**

https://teams.microsoft.com/l/team/19%3aFeDnpOEAd5F_q4vM_JnZhLMpm-gGBt03gAYMflkvqlg1%40thread.tacv2/conversations?groupId=92e190bf-29ce-42cd-9a11-616e8b7f01fa&tenantId=25933cd5-fa42-4290-9edd-84c5831bcdd8

Other contact: helpdesk@unil.ch with subject *DCSR Image Analysis*

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