M2 internship project in Quantitative Bio-Image Analysis

institutCurie

Developing an image analysis pipeline for real-time tracking of in-vivo transcription

Desired starting date: as soon as possible
Duration: six months

We, the team of **Wolfgang Keil** at UMR168 Institut Curie in Paris, are looking for a highly motivated M2 intern to help us analyze large-scale live-microscopy data that tracks gene expression in real-time.
The project will apply classical and Deep-learning approaches to register large imaging data sets, track cells and extract the intensity of a fluorescent reporter transgene that quantitatively measures gene transcription.

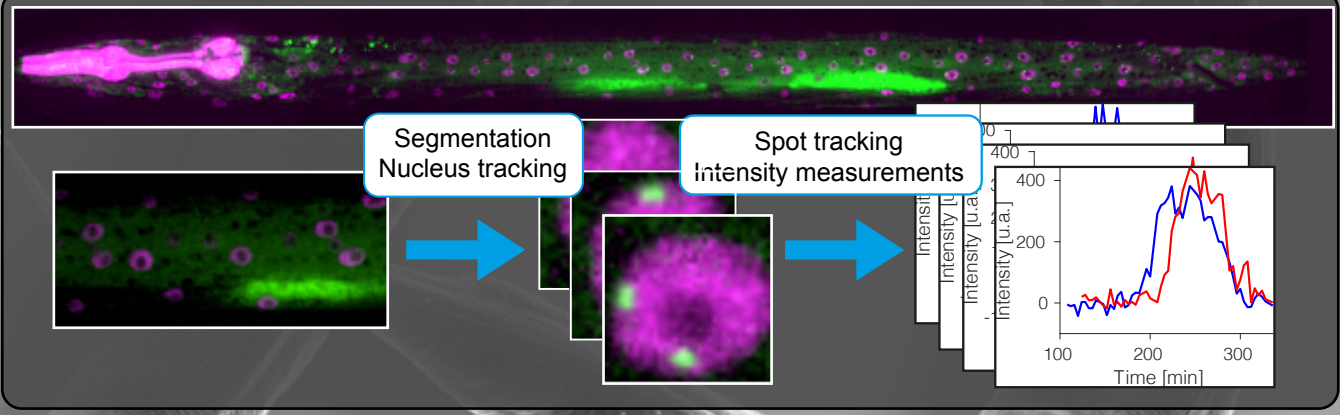
Skills required

- Excellent coding skills,
- Proficiency in Python, C++, Java or Matlab
- Strong motivation for interdisciplinary/biophysics research
- Ability to work in an international collaborative enviroment

Prior experiece in image-analysis is a big plus.

Skills acquired

- Quantitative bio-image analysis
- Deep-learning-based segmentation and object tracking
- Fundamentals of Developmental Biology and transcriptional regulation



Applications, in English, should include a short cover letter, a CV, the names of two references and should be sent to **wolfgang.keil@curie.fr** with the subject Image-Analysis M2 internship.