



*In collaboration with:*

## **Internship offer for a bachelor's or a master's student in Computer Science or Data Science**

**Location:** University of Vienna, Austria (Department of Behavioural & Cognitive Biology)  
Remote possible

**Supervisor:** Yseult Héjja-Brichard, PhD (Uni Wien & VetMedUni, AT)  
In collaboration with Julien Renoult (CNRS Montpellier, FR) and Tamra Mendelson (UMBC, USA)

### **Context**

General objective: Contribute to the development of a global database of fish images to test hypotheses in the field of evolutionary biology and ecology.

We have gathered an extensive collection of fish pictures and are looking for someone to develop/re-train a segmentation algorithm to separate the different body parts of the fish. About 1500 images have been manually segmented to constitute the training set. We also want to assign a quality label to describe the quality of those different body parts. We have already manually assigned a quality label to 8000 body parts to create a training set.

This project is part of a broader collaboration with researchers in France and the US. This could be a short internship opportunity for a student, but we are open to developing the project to fit a research thesis if there is an interest in that direction.

**Required skills:** Proficiency with Python, a good understanding of a machine learning library (e.g. PyTorch)

**Start of the internship:** April 2025

**Interested candidates should send their CV and cover letter to:**  
[yseulthb@gmail.com](mailto:yseulthb@gmail.com)