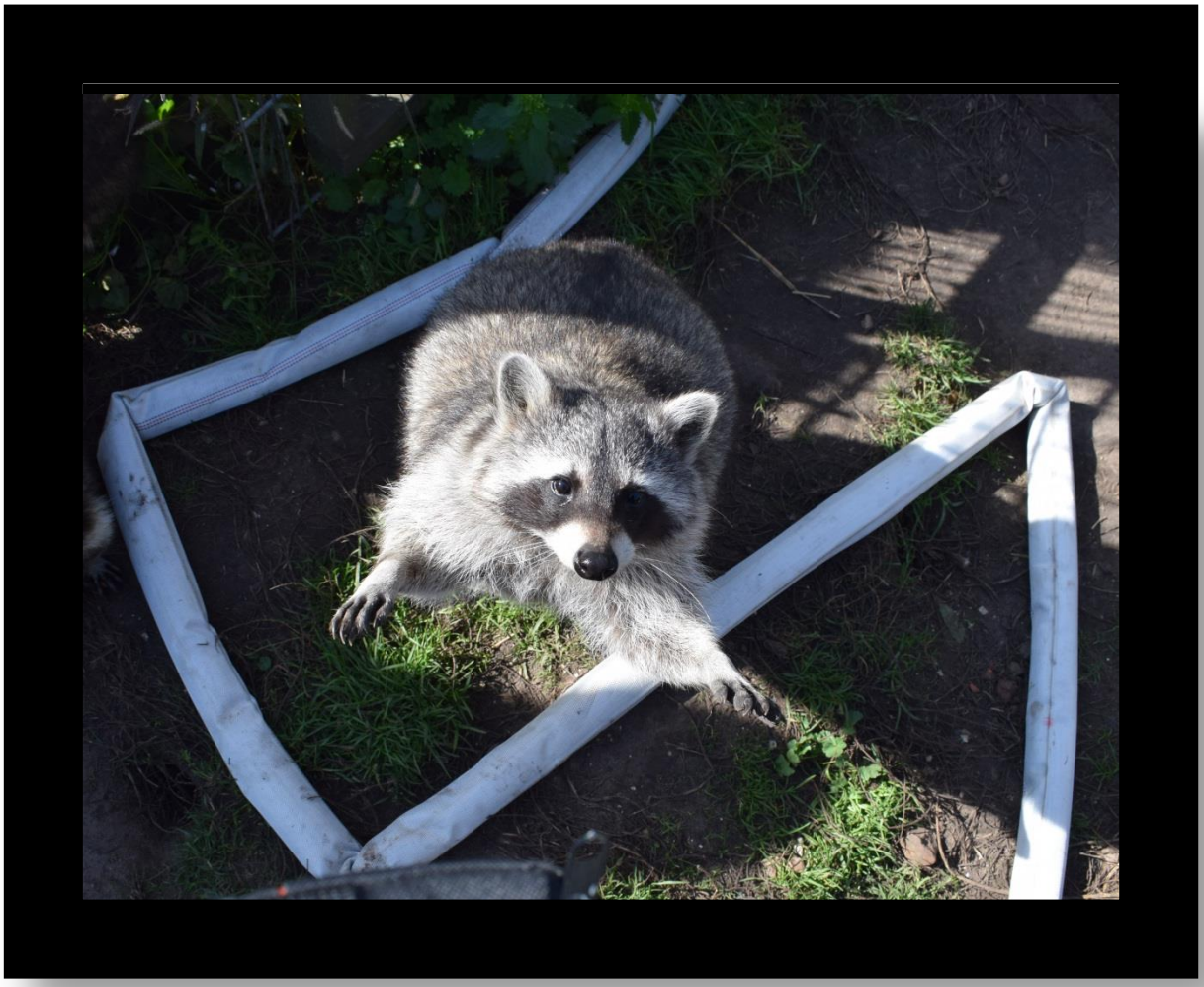
Master project

Raccoons' automated facial recognition



Identification of individual animals is crucial for behavioural studies as well as population estimates and conservation. In many species, identification of individual animals requires some form of stressful preliminary capture and even sedation. Fully automated facial recognition systems will provide a crucial advancement in several individual-based studies, allowing increased research efforts on one side and ensuring animals' welfare. In this master project we aim to apply deep learning algorithms (e.g., DeepLabCut, YOLO) for a fully automated facial recognition system which will exploit raccoons' unique facial markings, producing a non-invasive tool for individual-based studies.

The project is suitable for Master and Teaching students in biology, natural sciences, informatics, computer vision, or related subjects.

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