



3D segmentation of mammalian endocranium

Context: Understanding which factors influence the brain shape is a central issue in our comprehension of evolutionary mechanisms at the interface between neuroanatomy and paleontology. The cerebral endocasts (3D representation of the internal space of the braincase) represent the most reliable and effective way to investigate the external morphology of the brain. In this volunteer internship, we offer students to learn 3D segmentation using the endocranium of carnivorous mammals (Carnivora, Mammalia).

Objectives of the internship: The intern will undertake 3D segmentation on CT-scanners data of the cranium to obtain the endocasts imprints.

Required specialized knowledge and skills: This internship is open to all students interested in evolutionary biology / veterinary sciences / neurology. We ask for:

- Theoretical or practical knowledge in the study of evolutionary biology
- Completed courses in neurology is a bonus

Languages: French and/or English

Work environment: This internship can be done entirely by teleworking, however, the work in the Royal Museum for Central Africa, Tervuren (Belgium) will be possible depending on the global health situation.

Start/end date: Negotiable

Supervisors: Margot Michaud (post-doctoral researcher, Department of African Zoology) and Emmanuel Gilissen (Researcher and Curator mammalogy, Department of African Zoology).

Please send your CV with an introductory letter to: m.mar33@hotmail.fr. Applications in French and English are both accepted.