

Fredrik A. F. Markussen

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Education

- 2015–2018 **Bachelor of Biology, Honorary.**
UiT - Arctic University of Norway
- 2018–2020 **Master of Biology, Arctic animal physiology and chronobiology.**
UiT - Arctic University of Norway
- 2021– **PhD program, Arctic animal physiology and chronobiology.**
UiT - Arctic University of Norway

Technical Skills

- Programming Languages Python, R, LaTeX, Linux/Raspberry pi
- Laboratory techniques Immunohistochemistry, Immunofluorescence, *In situ* hybridization, Whole animal perfusion, Cryosectioning

Masters Thesis

- Title Hibernation in European Hamsters (*Cricetus crisetus*): An assessment of brain permeability during torpor-arousal cycling
- Supervisors Dr. Shona Wood, Prof. David Hazlerigg, Prof. Valérie Simonneaux
- Description This thesis developed behaviour monitoring methods for hibernating animals and assessed brain permeability during torpor and arousal taking a tracer perfusion and immunohistochemical approach.

Major courses and Certificates

- 1 **Animal physiology 20 ECTS**
- 2 **Chronobiology 10 ECTS**
- 3 **Animal welfare for researchers course** (one week intensive training)
- 4 **Radiation exposure and protection course** (one week intensive training)