



MSc project in eco-evolutionary physiology of amphibians

“Are you stressed?”

We are looking for an enthusiastic MSc student interested to work on **eco-evolutionary physiology** in *Rana arvalis* (Moor frog). In times of environmental change, species are facing more and more anthropogenic and natural occurring stressors. Through that, many species are experiencing a strong “fast-time scale selection”. We are studying how such selective factors, such as change in pH, predator and parasite occurrence, act on the moorfrog’s phenotype and how change in phenotype (morphology and physiology) and gene expression might be induced. The student will be based at **Evolutionary Biology Centre** at Uppsala University, but would collaborate with researchers from the Dept. of Aquatic Ecology, **Eawag** in Dübendorf, Switzerland. The exact topic depends in part on the student’s interest, but includes research on the phenotype of moor frog tadpoles’, e.g.

- Stress reactions
- Morphological changes of tadpoles
- Immunesystem reactions
- Effects of predators and parasites on phenotype

The start of the MSc project is somewhat flexible, but ideally would be spring 2018 (potential field work starting in March) and involves laboratory rearing experiments on moorfrog tadpoles of populations inhabiting an environmental stress gradient in Sweden (pH of ponds). The work is supervised by Prof. Anssi Laurila (Uppsala University, Sweden), Dr. Katja Räsänen (Eawag; www.eawag.ch/~rasaka) and PhD student Jelena Mausbach (Eawag/IBZ-ETH).

In case you are interested, please contact:

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Review of applications will start immediately. We are looking forward to meeting you!