



24.7.2018

Applications are invited for a four-year **PhD student** position and a three-year **Postdoc position** in a research project on “Machine learning methods for analyzing biospheric change” lead by Prof. Indrė Žliobaitė, funded by the Academy of Finland. The positions are at the Department of Computer Science, University of Helsinki.

Understanding the biospheric change processes and their causal mechanisms is one of the fundamental questions in science, also attracting massive public attention. The goal of this project is to develop new predictive modeling techniques for global scale analysis of environmental change based on characteristics animal communities preserved as fossils over the last 20 million years and beyond. This presents two interesting and generic machine learning challenges: data are not in a flat format but form multiple instances, and data distribution is severely changing over evolutionary time scales (severe concept drift).

The PhD student will develop tailored advanced machine learning solutions in this context, among other data sources, working with and contributing to the global fossil mammal database (NOW). The Postdoc will work closely with collaborators in vegetation and climate modeling to extract and analyze patterns from remote sensing data and climate models of present day world.

Requirements: for PhD candidates – track record in carrying out data analysis/ computational method development, demonstrated by a completed master thesis, internship or own project; for Postdoc candidates – experience in machine learning with remote sensing data.

Interested candidates are invited to apply by the **15th of August, 2018**. Please send your CV and a brief letter outlining your interests to Indrė Žliobaitė (indre.zliobaite @ helsinki.fi).