

Project title: **How fast can climate change?**
Supervisor: Assoc. Prof. Andrew Parnell

Project description. Massive changes in climate have occurred in the relatively recent geological past. Just 12 thousand years ago, an event known as the Younger Dryas caused a huge shift in the climate in a very short time. A key question is: how big was the shift and how short was the time? The source of information for answering these questions comes from ice cores, pollen sediment, stalactites, tree rings, and multiple other sources. In this project you would be collecting all these data sets together, synthesising them and then using the latest statistical modelling techniques to create a past climate map of the Younger Dryas across Europe. To apply for this project you need to have a background degree (or preferably MSc) in Mathematics or Statistics, and have studied topics such as Generalised linear modelling, multivariate analysis, and Bayesian inference.