MSc thesis opportunity

Extraction of phenotypic traits from virtual 3D assemblies of beech tree seedlings

In this project you will use photographs taken at a tree common garden experiment with over two hundred beech saplings from all over Europe to find out if the provenance of a tree affects its phenotype, even when placed in a common environment here in Switzerland. Based on 3D virtual assemblies, you will derive plant traits such as height, stem diameter or total biomass. Furthermore, there is the option to develop the methods for future photogrammetry campaign with the beech seedlings.

We are looking for a student who is interested in photogrammetry and excited to develop new protocols and procedures to accurately phenotype beech saplings.

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