FUTURE WOOD

Wood properties in a warmer, high-CO₂, world



Former post-doc at SPRUCE

Some of my projects:

• Can forest fertilization accelerate adaptation to a warmer climate?

Nitrogen and photosynthetic temperature acclimation

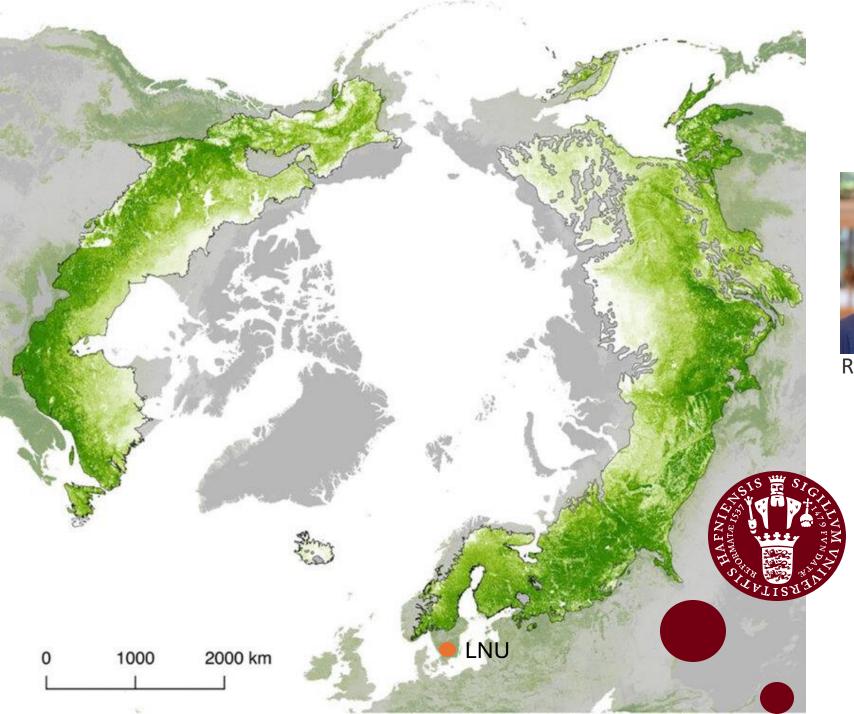
Acorn reserves

• The Oak Project

Landscape-level climateresilience of oak ecosystems.

PlantEra

Ancient plant survival strategies Simulate prehistoric CO₂ levels (420, 1500, 3000 ppm)





Reza Hosseinpourpia



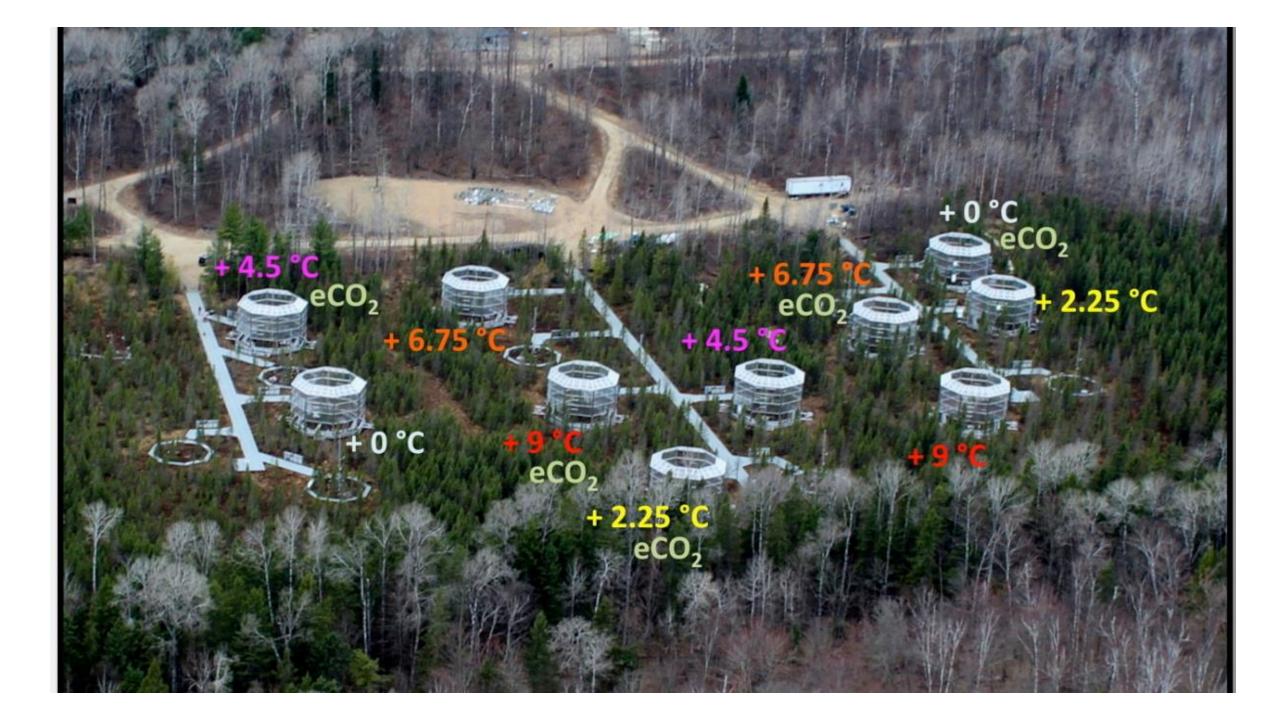
Helle Martens



This project aims to quantify and predict changes in wood properties that may occur in a warmer, high-CO₂ world.

Specific objectives:

- Macroanalysis physical, mechanical, and durability properties
- Microanalysis fiber properties
- Chemical analysis wood and bark chemical properties



Winter 2026

AJP 03P

Research focus

- Wood properties, modification & protection
- Wood/bark Composites bioadhesives and additives
- Wood processing sawmilling, drying and moisture *e.g. Itrax scanning densitometer*, which combines microdensitometric measurements with multi-element analysis through X-ray fluorescence (XRF)

