

# STRUCTURAL EXPLORATION WITH FLEXIBLE WOOD

## *Pavilion design in LVL (Laminated veneer lumber)*

The studio will focus on researching material components and structural systems that are based on bending and twisting of industrial timber - LVL.

The course is divided into two parts. In the first half, you will learn about the behavior of flexible LVL structures by working with physical scale models. The exploration method will be both manual and computer-based. You will also be introduced to parametric modeling and digital fabrication during this part of the course. In the second half, you will design a pavilion based on the findings from the first part, expressing the novel tectonics and structure as space.

### **Semester**

Spring 2024, Architecture Master Design Studio

Group work

Physical+Digital model (Rhino and Grasshopper basics)

### **Teachers**

Markus Wikar (University teacher, Architect)

Sichen Dong (PhD researcher, Architect)

Guest Lecturer (Aalto University, Wood Architecture)

### **Contact**

markus.wikar@geometria.fi

sichen.dong@aalto.fi

09.01.2024 - 28.05.2024

Tues. 13:00 - 17:00

Aalto University, Department of Architecture

Design of Structures (Prof.Dr.Toni Kotnik)

**A"DS** Aalto University  
Design of Structures