

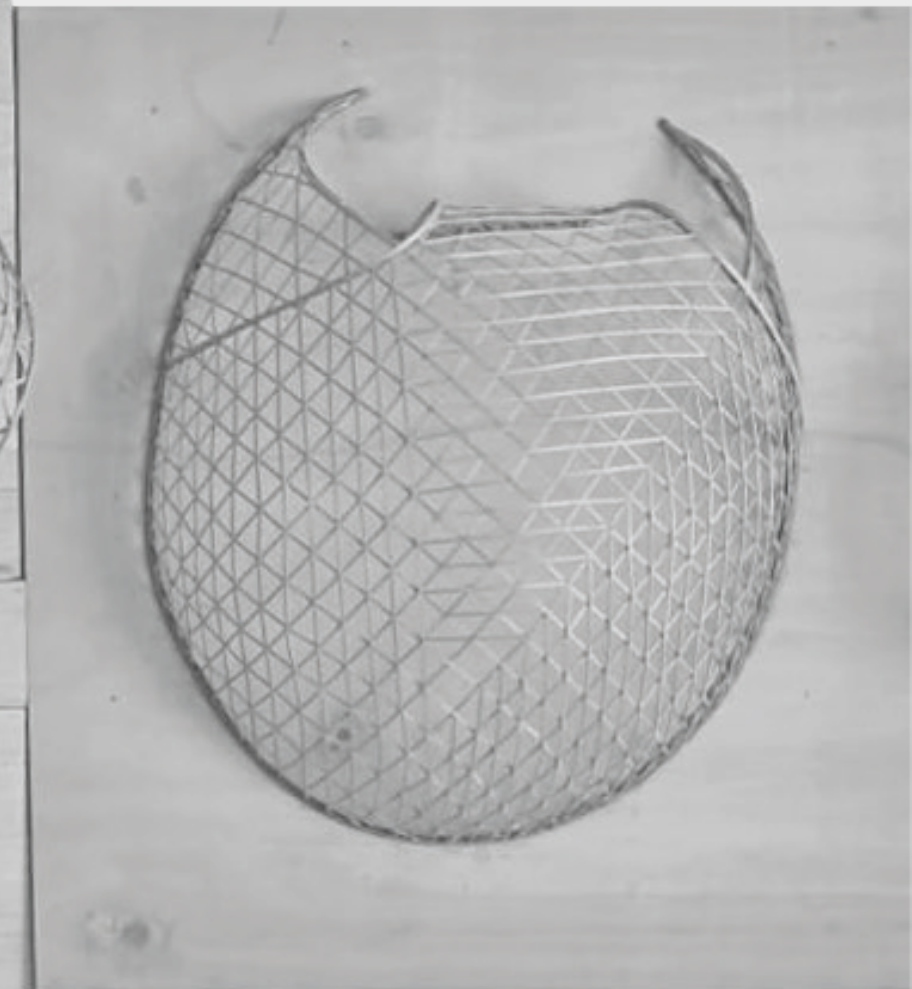
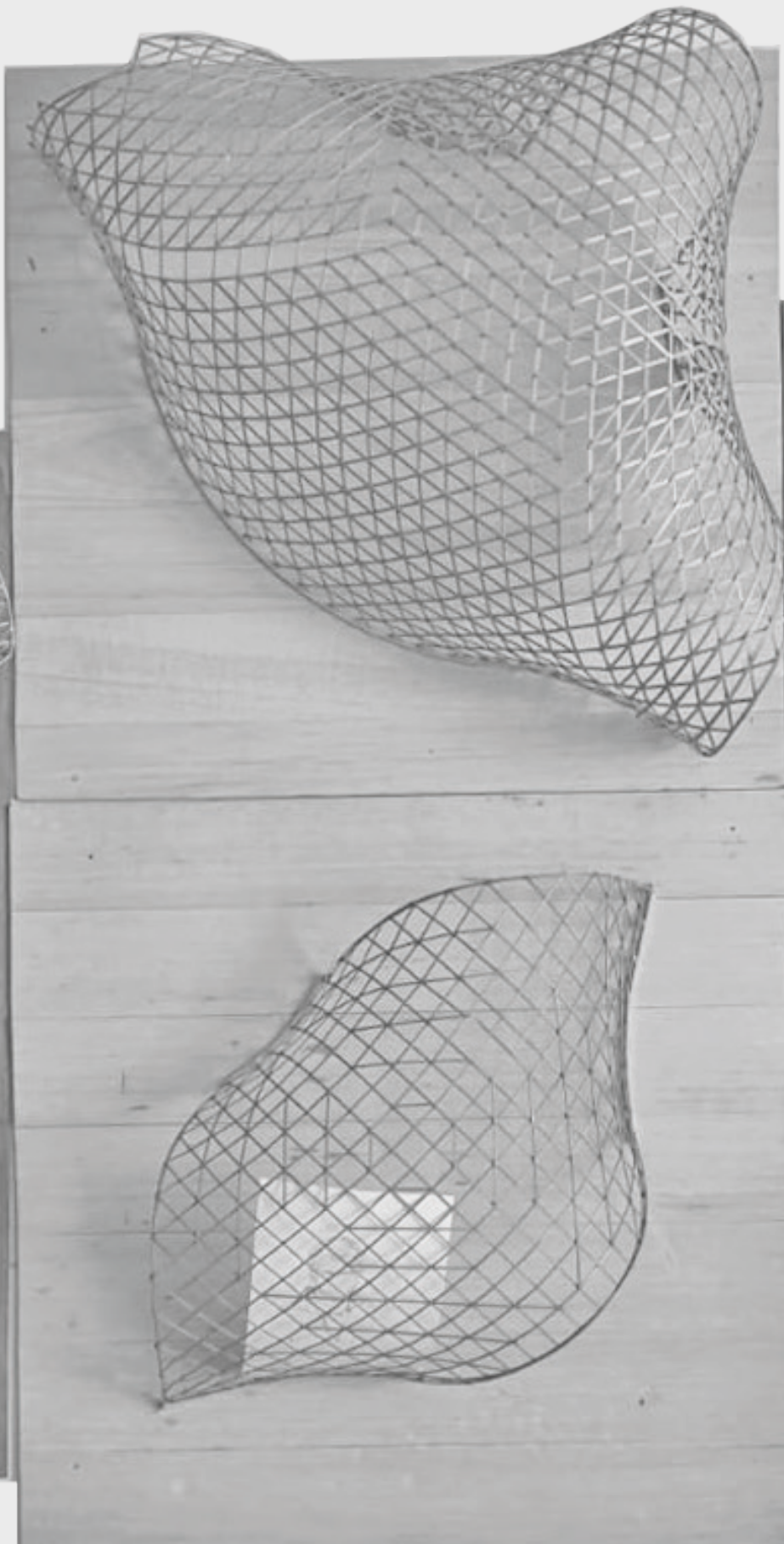
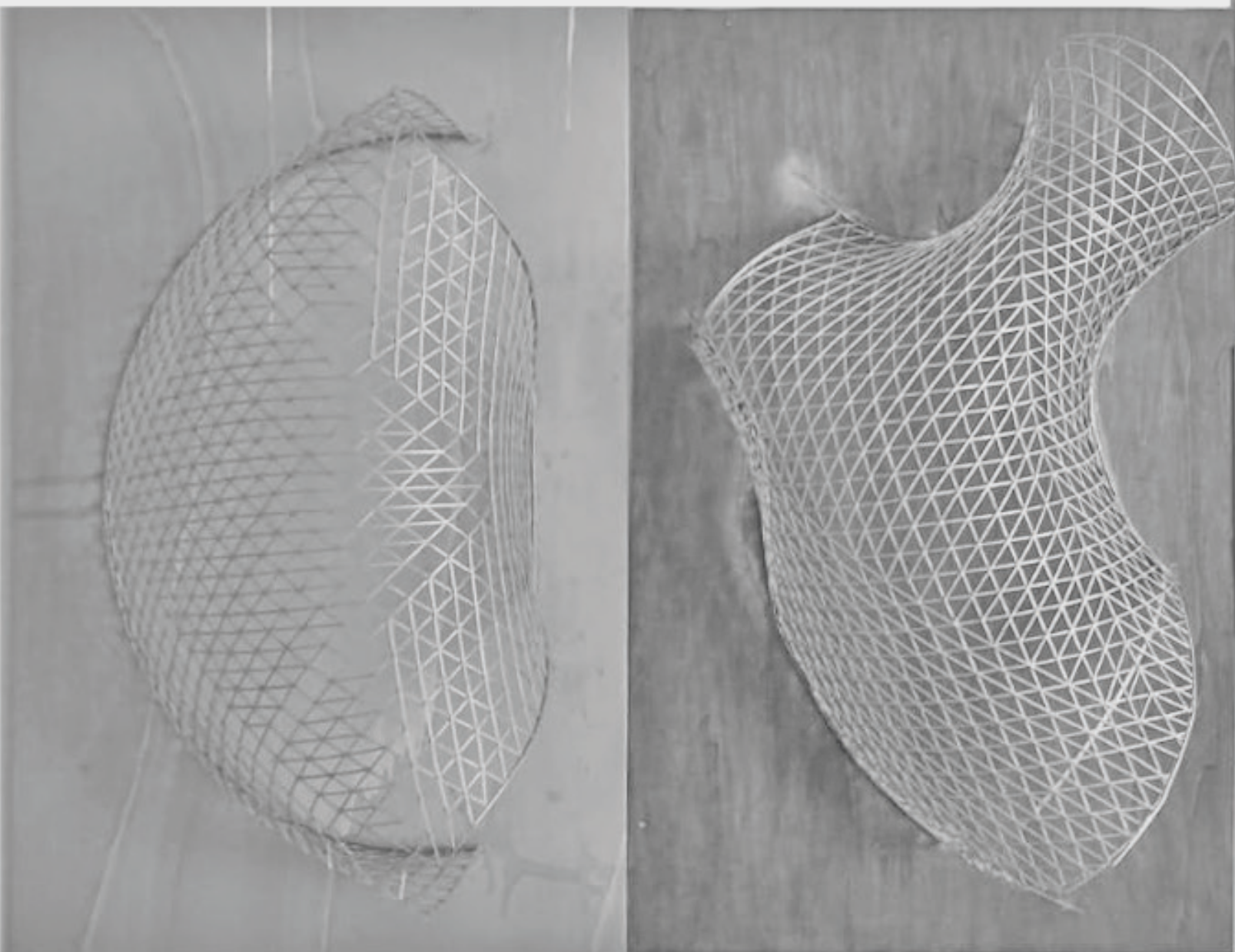


**SUMMER SCHOOL  
2025**

**June 30  
July 4**

# LET'S SHAPE

**GRIDSHELLS**



## Naples Italy

*Naples is a city of contrasts, where centuries-old architecture and modern life blend seamlessly along the stunning Mediterranean coast. Its rich cultural heritage, vibrant street life, and world-renowned cuisine make it a truly unique and inspiring destination.*

## Lecturers

**Sergio Pone**

(Università di Napoli Federico II)

**Chris Williams**

(Chalmers University of Technology)

**Daniele Lancia**

(Università di Napoli Federico II)

**Salvatore Sessa**

(Università di Napoli Federico II)

**Stefano Gabriele**

(Università di Roma, "Roma Tre")

**Amedeo Manuello Bertetto**

(Politecnico di Torino)

**Andrea Micheletti**

(Università di Roma Tor Vergata)

**Francesco Marmo**

(Università di Napoli Federico II)

The second edition of the summer school **Let's Shape** is an advanced training program for engineering and architecture Master Students, graduate and PhD students, focusing on the **design, analysis, and construction of gridshells** and other lightweight structures through computational and experimental form-finding techniques.



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# The School Teaching Program

The summer school combines specialized **lectures and hands-on exercises** to explore key aspects of gridshell design and construction. Students will learn the **geometric principles** behind gridshells, investigate **material behavior**, and study **construction techniques** with real-world applications.

The course will cover **numerical methods** for designing bending-active gridshells efficiently, introduce advanced **structural models** for performance assessment, and use **simplified mechanical models** to analyze structural behavior.

Additionally, students will apply optimization strategies to improve structural efficiency.

Students will work in teams, applying acquired knowledge to real-world case studies through both **digital simulations** and **physical prototyping**. They will apply form-finding techniques like dynamic relaxation and evolutionary optimization and use numerical models to design gridshells and simulate their stage-by-stage construction. In practical exercises, they will also build **scaled active bending timber gridshell models**, exploring how material properties, form generation, and construction feasibility interact.

*The detailed program will be announced soon*

## The Venue

Hosted by the **Department of Architecture (DIARC)**, **University of Naples Federico II (UNINA)**, the program combines theoretical foundations, computational approaches, and hands-on experimentation on timber gridshells scale models to provide a comprehensive learning experience.

### How to reach the Venue

#### 1. From Naples Capodichino Airport (NAP):

Take the Alibus shuttle to Napoli Centrale (Piazza Garibaldi). From there, follow the instructions below.

#### 2. From Napoli Centrale (Piazza Garibaldi) Train Station:

Take Metro Line 2 (direction Pozzuoli) and get off at Montesanto station. The journey takes about 5 minutes.

3. From Montesanto, the **Department of Architecture (DIARC)**, **Via Forno Vecchio 36**, can be reached on foot in approximately 10 minutes.



## Registration

Registration closes on May 30

Registration fee 400,00 €

### Info and updates

Visit [sites.google.com/view/iwss](https://sites.google.com/view/iwss)

Contact [iwss@polito.it](mailto:iwss@polito.it)

### Registration fee includes

- 30 hours of lectures and practical activities supervised by Lecturers
- Materials to build physical scaled models
- Coffee breaks and lunches
- Social dinner



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