

Creativity, Science and Innovation

Project 4: This is it

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Politecnico di Milano

BUT FIRST...



THE CHALLENGES CHALLENGE

From the PoliMI Strategic Sustainability Plan

<https://www.polimi.it/en/social-impact/sustainable-development>

EDUCATIONAL && LEARNING

PEOPLE CIRCULAR ECONOMY

SOCIAL RESPONSIBILITY

POLIMI 2.0



THE CHALLENGES CHALLENGE

Each team can choose its challenge

@31.10.2025

submit slide and a 3-page report

<https://tinyurl.com/CSIPrj3202509doc>

10' talks + questions

Starting @ 3.11.2025

10' TALKS + 5' Q

6 teams @ 3.11, Zoom, 9.30am

5 teams @ 3.11, 3.1.3, 12.30pm

6 teams @ 6.11, Zoom, 9.30am

5 teams @ 6.11, 25.0.2, 12.30pm

5 teams @ 10.11, 3.1.3, 12.30pm

6 teams @ 11.11, Zoom, 9.30am

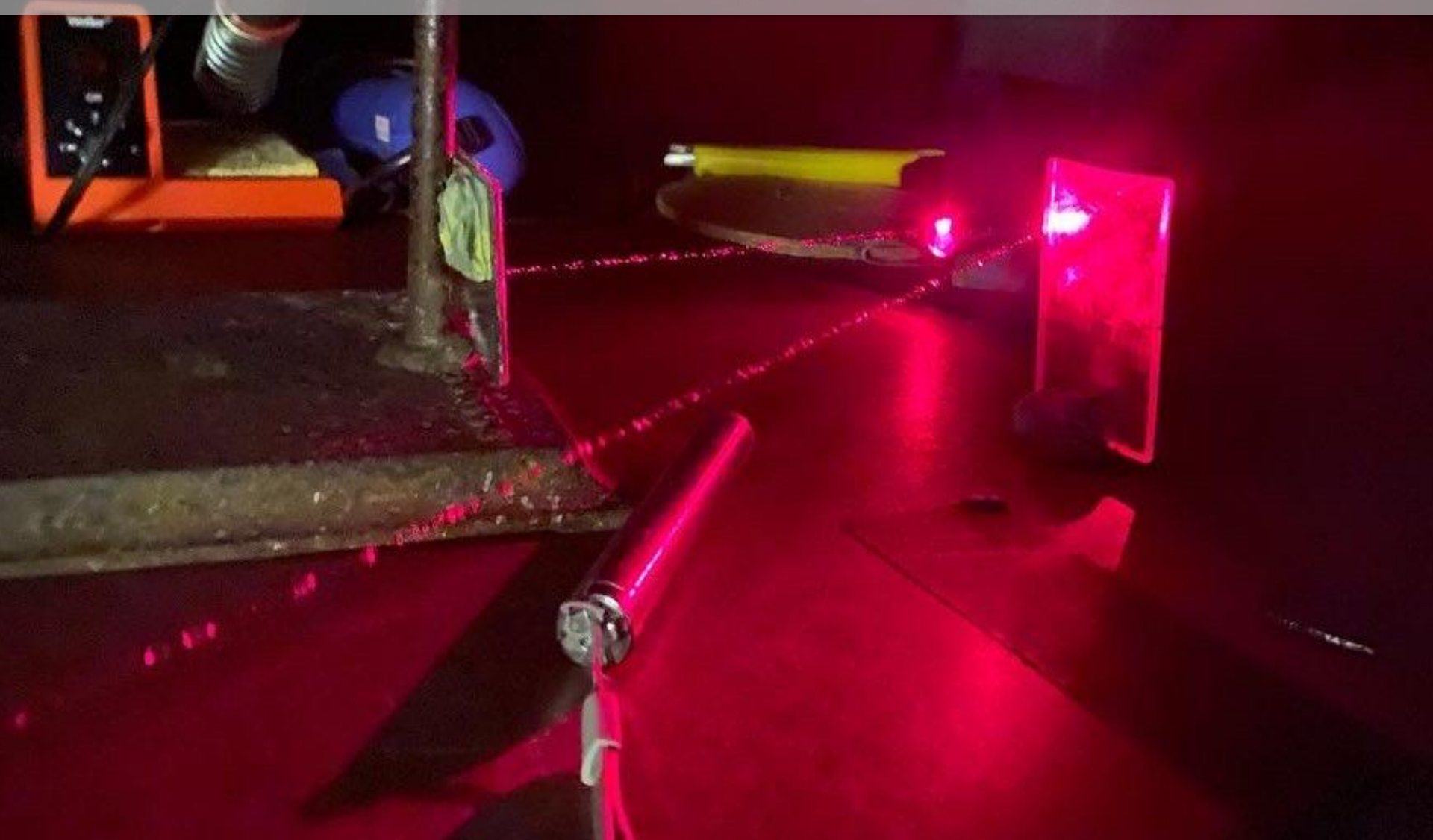
REGISTER at (deadline: 2.11.2025)

<https://tinyurl.com/CSI2025AgendaPrj3>

TODAY...



TECH PROJECTS



TECH PROJECTS: RULES



TECH PROJECTS: RULES

The background image shows a technical setup, possibly a laser alignment system. A bright red laser line is visible, extending from the left towards the right. In the center, there is a blue cylindrical component, possibly a lens or a part of a sensor. The overall scene is dimly lit, with the red laser providing a strong point of focus.

1. In CSI we will have 2 tracks

TECH PROJECTS: RULES

The background of the slide is a dark, low-key photograph of a technical setup. A bright red laser line is projected across the scene, creating a strong diagonal element. Various mechanical components, including what appears to be a motor or actuator, are visible in the shadows.

1. In CSI we will have 2 tracks
2. Each team will participate in ONE track (mandatory)

TECH PROJECTS: RULES

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2. Each team will participate in ONE track (mandatory)
3. Instructors will assign students in tracks
(<https://tinyurl.com/CSJPrj4202509>)
 1. students not assigned in (3) can decide where to compete
 2. tracks have to be balanced wrt their participants

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6. Teams in a track will compete to be the track champ
7. Track champ will be selected by the track supporter

TECH PROJECTS: DEADLINES

1. In CSI we will have 2 tracks
2. Each team will participate in ONE track (mandatory)
3. Instructors will assign students in tracks: **@ DONE**
(<https://tinyurl.com/CSJPrj4202509>)
 1. students not assigned in (3) can decide where to compete
 2. tracks have to be balanced wrt their participants
4. The students can create their teams autonomously:
@ 20 - 23.10 (<https://tinyurl.com/CSJPrj4202509>)
5. Instructors will “validate” the teams: **@23 – 27.10**

TECH PROJECTS: TRACKS

CS

I



TECH PROJECTS: TRACKS

CS the Creative Science behind student's life:
On how to improve your student's life with language models

<https://www.polimi.it/formazione/passion-in-action/dettaglio/la-scienza-creativa-dietro-la-vita-dello-studente-migliorare-la-vita-dello-studente-con-llm-1>

I

TECH PROJECTS: TRACKS

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**| Behavioral and Ambient Learning
Across Networked Collaborative Edges**

<https://www.polimi.it/formazione/passion-in-action/dettaglio/behavioral-and-ambient-learning-across-networked-collaborative-edges-balance>

Behavioral and Ambient Learning Across Networked Collaborative Edges





Behavioral and Ambient Learning Across Networked Collaborative Edges

@CSI classrooms/hours

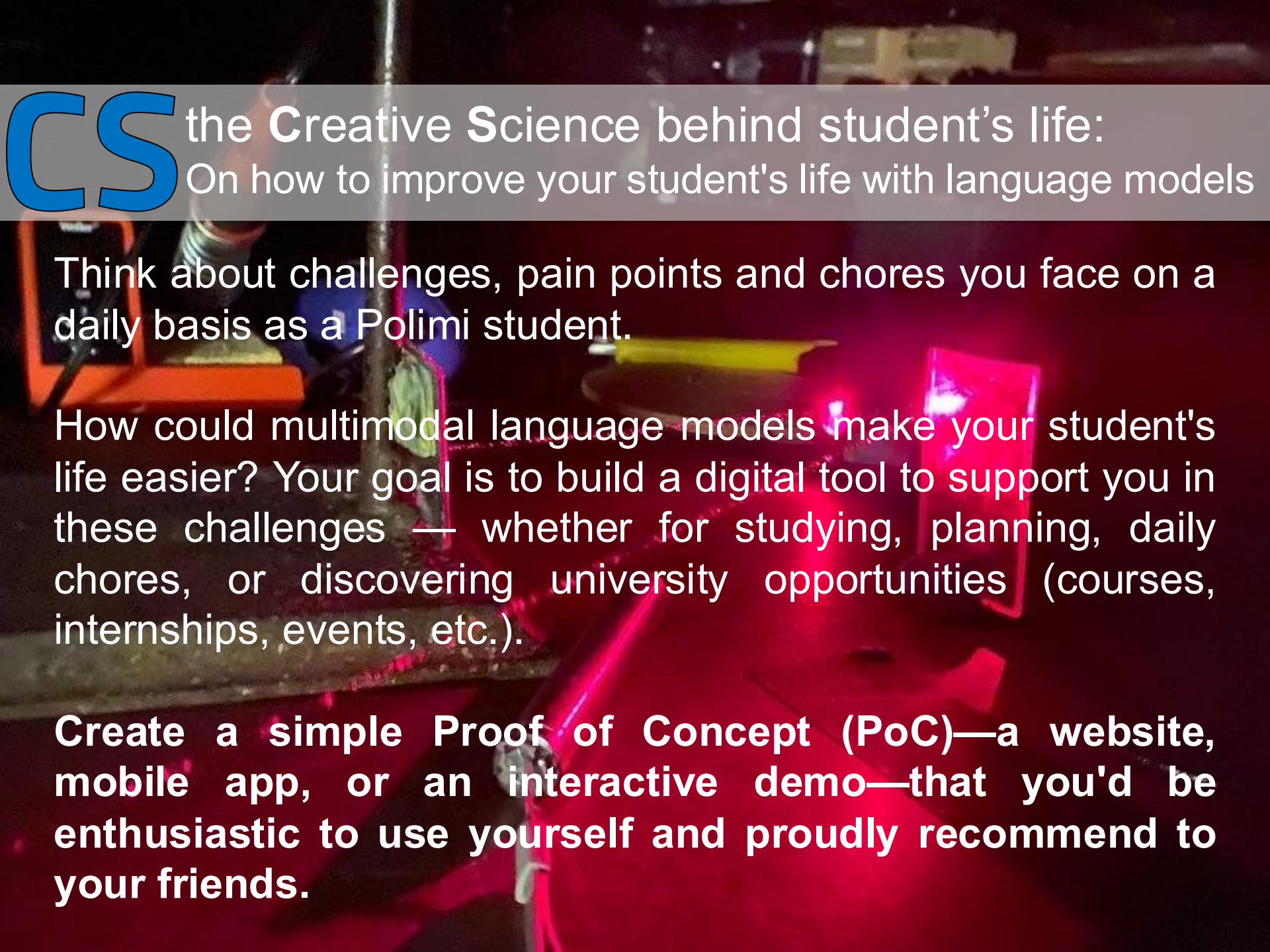
November: 13, 20, 24, December: 1, 4

By unlocking access to rich physiological and behavioral data through Garmin's APIs and SDKs, we can now explore new frontiers in personalized wellness monitoring — from **sleep and cognitive performance to sports and recovery analytics.**

This course dives into how Garmin data can be collected, processed, and transformed into actionable insights directly on edge devices, reducing cloud dependency while preserving user privacy. It's a journey through **smart, context-aware architectures.**

Docs: on dropbox – Projects – Prj4 – BALANCE

Take your Garmin: October 27 and 28

The background of the slide is a photograph of a science experiment. A Bunsen burner is lit, with a bright blue flame. A test tube is held in a clamp, and a yellow substance is being poured into it. The scene is dimly lit, with the primary light source being the flame of the burner.

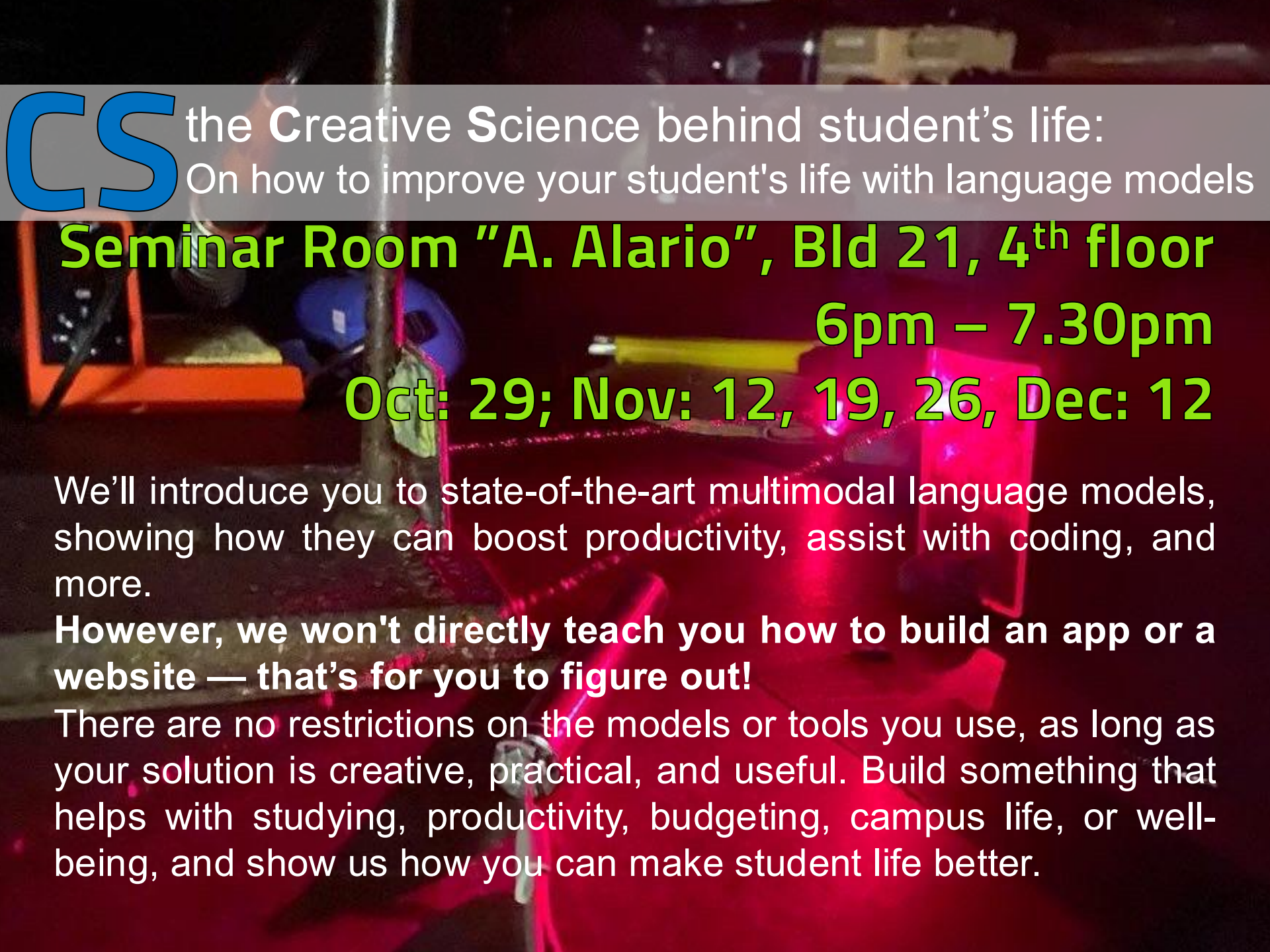
CS the Creative Science behind student's life:

On how to improve your student's life with language models

Think about challenges, pain points and chores you face on a daily basis as a Polimi student.

How could multimodal language models make your student's life easier? Your goal is to build a digital tool to support you in these challenges — whether for studying, planning, daily chores, or discovering university opportunities (courses, internships, events, etc.).

Create a simple Proof of Concept (PoC)—a website, mobile app, or an interactive demo—that you'd be enthusiastic to use yourself and proudly recommend to your friends.



CS the Creative Science behind student's life:
On how to improve your student's life with language models

Seminar Room "A. Alario", Bld 21, 4th floor

6pm – 7.30pm

Oct: 29; Nov: 12, 19, 26, Dec: 12

We'll introduce you to state-of-the-art multimodal language models, showing how they can boost productivity, assist with coding, and more.

However, we won't directly teach you how to build an app or a website — that's for you to figure out!

There are no restrictions on the models or tools you use, as long as your solution is creative, practical, and useful. Build something that helps with studying, productivity, budgeting, campus life, or well-being, and show us how you can make student life better.



TEAMS IN TRACK...



TEAMS IN TRACK...
COMPETING TO BE THE CHAMP

TEAMS IN TRACK... COMPETING TO BE THE CHAMP

0. (Dry run \w Aldo and \w Santa, Dec 2025)



TEAMS IN TRACK... COMPETING TO BE THE CHAMP

0. (Dry run \w Aldo and \w Santa, Dec 2025)
1. Teams have to submit their reports, by Jan 6, 2026
(6 pages max) - <https://tinyurl.com/CSIPrj4202509doc>

TEAMS IN TRACK...

COMPETING TO BE THE CHAMP

0. (Dry run \w Aldo and \w Santa, Dec 2025)
1. Teams have to submit their reports, by Jan 6, 2026
(6 pages max) - <https://tinyurl.com/CSIPrj4202509doc>
2. Teams **assigned** to a track will present at the supporter location, competing to be the champ
- (2. All the teams will have the chance to present at the other supporter locations – without competing)



TEAMS IN TRACK...
COMPETING TO BE THE CHAMP



TEAMS IN TRACK...
COMPETING TO BE THE CHAMP

1 TEAM IS GOING TO WIN
EACH TRACK



**TEAMS IN TRACK...
COMPETING TO BE THE CHAMP**

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EACH TRACK**

**THE 2 TRACK WINNERS
ARE GOING TO COMPETE**



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TEAMS IN TRACK...
COMPETING TO BE THE CHAMP

1 TEAM IS GOING TO WIN
EACH 1 HOW?

THE 2 TRACK WINNERS
ARE GOING TO COMPETE

POLITECNICO MILANO 1863

NECST
laboratory

RESEARCH LINE FAIR EVENT

DEIB CONFERENCE ROOM
@30.1.2026, 9AM – 12PM

THE 2 TRACK WINNERS
ARE GOING TO PRESENT @ NRLFE

POLITECNICO MILANO 1863

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WHAT?

THE 2 TRACK WINNERS

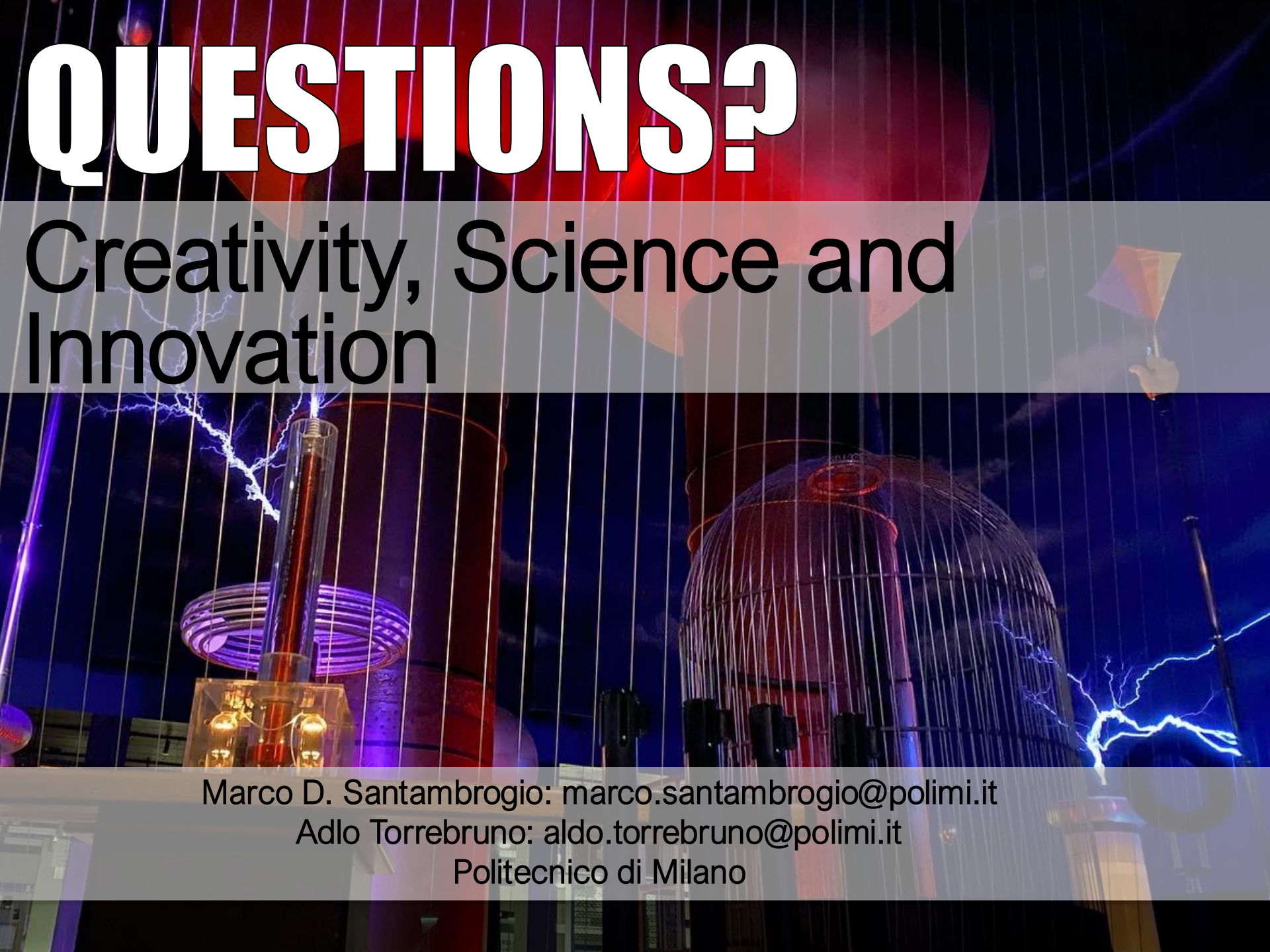
ARE GOING TO PRESENT @ NRLFE

A blue hoodie is draped over a dark, curved object. The hoodie features a white logo on the back that reads "NECST laboratory" with "Fondazione Milano 196" written in smaller text above it. Another part of the hoodie shows the text "NGC 2023" in white. The background is dark and out of focus.

WINNER... NSW26
24-27.7.2026

**NOT ONLY!
BUT YOU'LL KNOW IN JUL**

**WINNER... NSW26
24-27.7.2026**



QUESTIONS?

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