



**Symposium
Milan**

Photonics for Energy, Environment and Cultural Heritage

Discover Photonics, and the career opportunities it offers!

A rich program with **keynote talks**, **career insights**, **hands-on sessions**, and opportunities for **mentoring and networking**.



27-28 May 2025 from 16:00 to 21:00 CET

Politecnico di Milano, Campus Leonardo, Building 1

Organized by



with the collaboration of



PHOTONICS²¹
PHOTONICS PUBLIC PRIVATE PARTNERSHIP

This project has received funding from the European Union Horizon Europe research and innovation program under grant agreement No 101019550.



Register by 21 May 2025

EVENT BOOKLET









27 May 2025 – Aula Magna and Aula 2 and 3 of Building 1

16:15–16:30 – Welcome and Introduction – Aula Magna

[Prof. Daniela Comelli](#), local coordinator of the EU-funded [360 Carla](#) project at Politecnico di Milano, will present an overview of the initiative, guide participants through the event sessions, and introduce future 360 Carla activities.

16:30–17:30 – Photonics for sensing – Aula Magna

This session explores recent research on photonics applied to cultural heritage, atmospheric monitoring, and food quality. Following the talks, a discussion with the audience will follow.

Speakers		
<i>Photonics technologies for cultural heritage</i>	<i>Photonics technologies for atmosphere monitoring</i>	<i>Photonics technologies for food quality assessment</i>
		
Prof. Claudia Daffara	Dr. Gianluca Galzerano	Prof. Alessandro Torricelli
Professor at Università degli Studi di Verona  UNIVERSITÀ di VERONA	Research Director at Consiglio Nazionale delle Ricerche – Istituto di Fotonica e Nanotecnologie (CNR-IFN)  Consiglio Nazionale delle Ricerche	Full professor at Politecnico di Milano, Physics Department 
Moderator		
		
Dr. Zoi Melissari		
Project manager and Outreach at ICFO - The Institute of Photonic Sciences 		

17:30–18:30 – Parallel sessions

The event is divided into two parallel sessions (details are below).

To select the session you wish to attend, you must express your preference on the *Confirmation of Attendance Form*.

Session A in Aula Magna: *Quantum race – Understanding quantum mechanics is as easy as a game!*

In this session, participants will discover the basics of quantum mechanics by playing with a board designed by Dr. Fabio Chiarello. For this purpose, participants in this session will be spread out on different game boards.



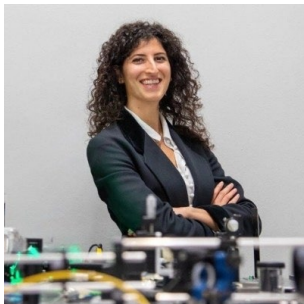



<i>Quantum race – Understanding quantum mechanics is as easy as a game!</i>		
		
Dr. Fabio Chiarello		
Researcher at Consiglio Nazionale delle Ricerche – Istituto di Fotonica e Nanotecnologie (CNR-IFN)		
 Consiglio Nazionale delle Ricerche		

Session B in in Aula 2 and Aula 3: *Your hands on real photonics-based devices!*

In this session, you'll see photonics devices developed at the Politecnico di Milano and CNR-IFN:

- Dr. Caterina Amendola will show you how light can be used to noninvasively probe fruit quality.
- Dr. Giorgia Tortora will introduce you to light-sheet microscopy and how it can help us discover plant growth mechanisms.
- Dr. Cristian Manzoni will show you an innovative hyperspectral camera and how to use it to analyse an artwork.

When completing the *Confirmation of Attendance Form*, you will be able to choose the two events from these three in which you wish to participate.

<i>Probing the inner optical properties of fruits through diffuse optics experiments</i>	<i>Hyperspectral imaging to discover the secrets of colors in a work of art</i>	<i>Shedding Light on Plant Growth Mechanisms through Light Sheet Fluorescence Microscopy</i>
		
Dr. Caterina Amendola	Dr. Cristian Manzoni	Dr. Giorgia Tortora
<p>Researcher at Politecnico di Milano, Physics Department</p> 	<p>Research Director at Consiglio Nazionale delle Ricerche – Istituto di Fotonica e Nanotecnologie (CNR-IFN)</p>  <p>Consiglio Nazionale delle Ricerche</p>	<p>Postdoctoral Researcher at Politecnico di Milano, Physics Department</p> 






19:00–19:45 – Parallel sessions

The event is divided into two parallel sessions (details are below).

To select the session you wish to attend, you must express your preference on the Confirmation of Attendance Form.

Session A in Aula Magna: *My start in Photonics*

In this session you will hear the career paths of four Alumni to gain insight and guidance for your future career in photonics. After an inspiring presentation by each of the Alumni, the session will be open to questions and answers from the audience.

Mentors			
			
Dr. Anna Cesaratto	Dr. Silvia Liprandi	Dr. Sara Mosca	Dr. Federico Sala
R&D Project Manager at EssilorLuxottica Smart Eyewear Lab	Data Science Engineer at Xnext S.p.A.	Senior Scientist at Center Laser Facility (STFC-UKRI)	Team Leader and process engineer at Technoprobe
 			
Moderator			
			
Prof. Gianluca Valentini			
Full professor at Politecnico di Milano, Physics Department			
			

Session B in Aula 2: *From a research idea to a start-up company*

Join this session to hear start-up founders share insights on entrepreneurship, key steps, and skills to turn research into a start-up. Brief presentations will be followed by an open discussion with the audience.

Entrepreneurs			
			
Dr. Francesco Ceccarelli	Dr. Jacopo Frigerio	Dr. Antonio Iacchetti	Dr. Michele Lacerenza
Head of Integration at EPHOS	Co-founder of EYE4NIR	CEO of Ribes Tech S.r.l.	CTO at PIONIRS
			
Entrepreneurs		Moderator	
			
Prof. Francesco Meinardi	Dr. Matteo Negro	Dr. Lydia Sanmartí-Vila	
Full professor at University of Milano Bicocca, Department of Materials Science	CEO at Cambridge Raman Imaging	ICFO - The Institute of Photonic Sciences	
			

28 May 2025 – Aula Magna

16:15–16:30 – Welcome and Introduction – Aula Magna

Prof. Daniela Comelli, local coordinator of the EU-funded [360 Carla](#) project at Politecnico di Milano, will present an overview of the initiative, guide participants through the event sessions, and introduce future 360 Carla activities.

16:30–17:30 – Photonics for a sustainable world

In this session, you will discover how photonics, spectroscopy and electro-chemistry can be of help for the study of renewable batteries, the design of innovative and sustainable photovoltaic modules and for environmental monitoring.

Speakers		
<i>Renewable batteries: how spectro-electrochemistry can be of help</i>	<i>Hybrid-quantum: a step forward for sustainable concentrator photovoltaics</i>	<i>Hyperspectral imaging and environmental monitoring</i>
		
Prof. Benedetto Bozzini Full professor at Politecnico di Milano, Energy Department 	Dr. Alessandro Minuto Researcher at RSE S.p.A. 	Dr. Cristian Manzoni Research Director at Consiglio Nazionale delle Ricerche – Istituto di Fotonica e Nanotecnologie (CNR-IFN) 
Moderator		
		
Prof. Franco V.A. Camargo Researcher at Consiglio Nazionale delle Ricerche – Istituto di Fotonica e Nanotecnologie (CNR-IFN) 		

17:30–17:45 – Career Service: Introduction to our Services

Dr. Martina Menesatti
Career Advisor and Project Manager at Career Service of Politecnico di Milano


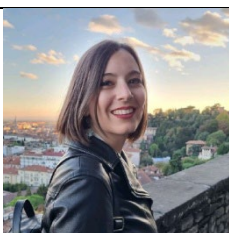









17:45–18:15 – The Healing Power of Light

In this inspiring speech, prof. Andrea Siniscalco will let us discover the relationship between physiology and psychology in the human response to light and chromatic stimuli, and how light can promote well-being and personal, social, productive, relational, and communicative activities.

Speaker		
<i>Lighting for wellbeing</i>		
		
Prof. Andrea Siniscalco		
Professor at Politecnico di Milano, Design Department		
		

18:45-19:45 – Your future life in a photonics-based company

In this session participants will be able to network in a speed-date with Polimi Alumni to discover the professional world around Photonics. To select the Alumni you wish to speak with, you can express your preference on the **Confirmation of Attendance Form**.

			
Dr. Federico Campaner	Dr. Selene Carrara	Dr. Luca Casonato	Dr. Matteo Colopi
Metrology Engineer at Media Lario Srl	R&D Optical Engineer at Marelli Europe S.p.A.	Project Manager at Quanta System	Mechanical Engineer at IPG Photonics Italia
			
			
Dr. Filippo Coviello	Dr. Lorenzo Frabasile	Dr. Alberto Ghezzi	Dr. Vittorio Grimaldi
Ph.D. Executive at EssilorLuxottica	Optical Designer at CevLab S.r.l.	Senior Consultant and Optical Engineer at Capgemini Engineering	Electronics Engineer at EPHOS
			

			
Dr. Alessandro Minuto	Dr. Erika Moggi	Dr. Riccardo Motta	Dr. Stefano Palmieri
Researcher at RSE S.p.A.	Product Development Expert at BLUETHINK	Laser Application Engineer at Optoprim Srl	Optical engineer at Vimercati S.p.A.
			
			
Dr. Sergio Sutti	Dr. Daniele Viola		
Optical Engineer at OPTEC S.p.A.	Laser R&D manager at Bios Srl		
			