



## PhD newsletter

Jan 25

### Calls and events

16<sup>TH</sup> JANUARY 2025

#### EXPLOITING YOUR EXPERTISE IN DEEP TECH TO CRAFT AN EXCITING AND IMPACTFUL CAREER

We are pleased to invite you to the upcoming event "*Exploiting Your Expertise in Deep Tech to Craft an Exciting and Impactful Career*", held by Marina Hatsopoulos, writer, entrepreneur, and co-founder and CEO of Z Corporation, one of the pioneering leading companies in the 3D printing market. You can find more information about her career [here](#).

The event will explore various career paths, from Research to Large Companies and Startups, highlighting the pros and cons of each path and how they complement one another in building a successful career.

Event details:

Date: 16 January 2025

Time: 10:00 a.m. to 12:00 p.m. – registration opens at 9:30 a.m.

Location: Aula 3.0.2, Building 3, Leonardo Campus, Politecnico di Milano

To attend the event, please register by filling out this [form](#) by January 15th at 12:00 p.m.

We recommend attending the event in person. However, participants who are unable to do so can indicate it in the form and will receive a link closer to the event date.



## Seminars and workshop

DR. OLAYIWOLA OLADIRAN

### Innovation and Digital Technology: the future of property and the built environment

The Open Talk organized by the ABC PhD School focuses on the evolution of the real estate industry towards digital innovation, providing insight into the elements of the PropTech ecosystem, and highlighting systems such as smart cities and buildings, planning technology, and automated valuation models.

January 21st, 2025



## News

### PRODUCTS AND SERVICES AT SPECIAL CONDITIONS



#### Theatre courses and more

Thanks to the new agreement with Teatri possibili you will get 25% discount on enrollment in all courses.

You will just have to show your university badge.



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MILANO 1863

You can find the full list of product and services at special conditions here  

## Starting Courses – DOCTORAL PROGRAMMES

### PHD IN STRUCTURAL SEISMIC AND GEOTECHNICAL ENGINEERING

PROF. GIULIANA CARDANI

PROF. DARIO CORONELLI

### MULTIDISCIPLINARY APPROACH FOR THE STRUCTURAL ANALYSIS OF HISTORIC MASONRY BUILDINGS

The course deals with how to analyze historical masonry structures by visual observation, testing and numerical structural analysis

From January 20th, 2025



## Starting Courses – PHD SCHOOL

PROF. CANINA MARIA RITA, PROF. BRUNO CARMEN

### CREATIVE DESIGN THINKING

The objective of the course is to equip multidisciplinary PhD students with fundamental knowledge on creativity and a toolbox that will augment their creative and design abilities and mindset to face challenges in their own professional fields. The toolbox is constituted by a design thinking process and a series of tools and techniques that will boost their Creative Thinking to reach innovation. Students will learn different creativity tools and established skills in their utilization over different problems and areas, adopting different approaches to problems and developing innovative solutions out of them. The course foresees a learning by doing approach where they will apply the toolbox step by step to face a challenge, stimulating a creative working environment. Indeed, the objective of the Creative Design Thinking is the establishment of a creative environment in the working group in order to trigger the individual creative potential when implementing innovation. The key concepts on which the course is based are: creativity as the ability to "lateral thinking", a human-centred approach that puts people at the center of the design process and a method which involves co-participation.

From 27<sup>th</sup> January to 10<sup>th</sup> February 2025



**PROF. MASARATI PIERANGELO, PROF. BARCA ANDREA**

## **ETHICAL ASPECTS OF RESEARCH ON DUAL-USE TECHNOLOGIES**

Introduce ethical issues, with specific reference to research on dual-use products in aerospace engineering, and challenge the capability of students to identify potential ethical issues in their activity and address them

From 28<sup>th</sup> to 30<sup>th</sup> January 2025



**PROF. VOLONTE' PAOLO GAETANO**

## **INTRODUCTION TO ACADEMIC RESEARCH**

This course aims at offering to Ph.D. students awareness of the social and institutional framework of doing research, with particular focus on research for planning, design and techno-scientific disciplines. It provides a comprehensive and reflexive introduction to academic research and academic life.

From 14<sup>th</sup> January to 5<sup>th</sup> February 2025



**PROF. DI BLAS NICOLETTA**

## **PROFESSIONAL COMMUNICATION**

The goal is to enhance students' communication skills in public speaking and written communication (special emphasis on project proposals and scientific papers writing). A quote by MIT communication instructors summarizes the goal: "engineers who don't write [=communicate] well end up working for engineers who do write well".

From 9<sup>th</sup> to 30<sup>th</sup> January 2025



**PROF. MANCINI MAURO, PROF. FAVARI EDOARDO**

## **PROJECT MANAGEMENT (IN ACTION)**

The course aims at introducing the students in the characteristics of project-based operations and offering them the opportunity to take confidence on the tools and techniques for the planning and control of projects starting from their application in the academic and professional experience of the students. Multiple sectors will be specifically addressed as Oil and Gas, civil and Services - in order to share practical techniques to manage small, large and mega projects.

From 13<sup>th</sup> to 17<sup>th</sup> January 2025



**PROF. OSSO PAOLO MARIA, PROF. MAFFINI ALESSANDRO**

## **SULLA RESPONSABILITÀ DELLA TECNICA**

Ogni studente prende parte attiva all'analisi critica delle argomentazioni filosofiche presentate nelle lezioni. Nella parte conclusiva del corso si affronta un Seminario tematico su un tema suggerito dagli studenti, analizzando, a partire da una selezione di testi, le modalità con cui la tecnologia incide sull'organizzazione della vita civile, con particolare attenzione ai quesiti etici determinati da tale impatto.

From 8<sup>th</sup> January to 21<sup>st</sup> February 2025



PROF. SHENDRIKOVA DIANA, PROF. BURIGANA DAVID, PROF. COLOMBO EMANUELA, PROF. GALA MARILENA

## **SCIENCE DIPLOMACY FOR RESEARCHERS. FILLING THE GAP BETWEEN SCIENCE AND POLICY WITHIN THE GLOBAL CHALLENGES**

In the current global context characterized by complex and unpredictable challenges there is a renovated interest in the role of academic education and scientific research, since they can generate innovation and high-level knowledge to support both immediate choices and long term strategies to address major global challenges and respond to the shared needs of sustainable and equitable development (concerning energy security, agriculture and food security, global and one-health, climate change, and geopolitical crises, to mention a few). This is the essence of science diplomacy, defined as the use of scientific, technological, and academic collaborations among countries, regions and societies to address common challenges and to build effective international partnerships. Science diplomacy is an important new area of research and practice that recognizes diplomacy as an avoidable asset of international cooperation and science as the essential driver to support evidence based policymaking with special reference to global challenges. Science diplomacy can have different perspectives but within the frame of a research institution focus on technological aspects (like Politecnico di Milano) it will be basically analysed for two of them 1. Science for Diplomacy: building new paradigms for scientific cooperation in research and innovation to support foreign policy and international relations. 2. Science in Diplomacy: delivering evidence-based research results to inform the process of policy making within the framework of the social and global challenges. The aim of a PhD course lies in developing and testing new ways of incorporating negotiation and policy advisory skill-building into advanced doctoral study. The PhD course will provide students with the practical policy brief writing skills (one of the main tools of EBPM), as well as negotiation and diplomacy skills. They will also acquire knowledge on existing international institutions and mechanisms of Science Advisory, being in the role of Scientific Advisor (facilitated by their STEM preparation) through the PW, based on Model of EU SAM (Science Advisory Mechanism), preparing them to navigate in existing Science Diplomacy mechanisms and take active part in multilateral diplomacy (es. COP-27), where non-state actors have been lately playing an increasingly important role.

From 20<sup>th</sup> to 24<sup>th</sup> January 2025



PROF. VOLONTE' PAOLO GAETANO

## **TECHNOLOGY AND INEQUALITY**

What is the social impact of a technology? How is technology tied to gender, race, and disability? What does "structural" or "institutional racism" mean? How does it involve technology? Can/Should technology fix disability, racism, or gender inequality? The objective of this course is to allow Ph.D. students to answer questions like these, by making them aware of unexpected and unwanted social impacts of their work, and technological development in general. Drawing from research in Science and Technology Studies (STS), Feminism, Race Studies, Disability Studies, and Media Studies, the course aims at looking at the social and political dimensions of technology, with particular focus on the multiple forms of inequality that can be embedded in technological devices and infrastructures. The course

will explore technology through an intersectional approach, focusing on different social positions (gender, 'race'/ethnicity, disability, global North and South) and their overlapping.

From 14<sup>th</sup> to 23<sup>th</sup> January 2025

