



**POLITECNICO  
MILANO 1863**

**PhD School - Politecnico di Milano  
Regulations of the PhD Programme in:  
Urban Planning, Design and Policy**

**Cycle 41<sup>st</sup>**

Location: Milano Leonardo

# 1. General Information

PhD School - Politecnico di Milano

PhD Programme: Urban Planning, Design and Policy

Location of the PhD Programme: Milano Leonardo | Course start: September 2025

Promoter Department: Department of Architecture and Urban Studies (DAStU)

Scientific Disciplinary Sectors:

- CEAR-12/A- Urban and regional planning
- CEAR-12/B- Urban and landscape planning
- CEAR-10/A – Drawing
- CEAR-09/A- Architectural and Urban Design
- GEOG-01/B - Economic and political geography
- GSPS-08/A - Sociology of Economic and Labour Processes
- ECON-04/A - Applied economics

PhD School Website: <http://www.polimi.it/phd>

PhD Programme Websites:

[www.dastu.polimi.it/dottorato-urbanplanning/](http://www.dastu.polimi.it/dottorato-urbanplanning/)

<https://www.dottorato.polimi.it/en/phd-programmes/architecture/urban-planning-design-and-policy>

## 2. General presentation

The PhD programme in Urban Planning, Design and Policy (UPDP) explores the magnitude and impact of contemporary urban changes to understand how these processes can be governed through planning, design, and policy-making activities. The programme pays specific attention to the transition towards new, more sustainable and equitable modes of urban development and pro-active planning practices. The integration between different fields and disciplines of urban research on the one hand and between theory and practice on the other distinguishes the approach promoted by this PhD programme.

The programme's objective is to provide PhD candidates with analytical and interpretative tools and research methods to advance research frontiers in urban studies, spatial planning, urban design, and urban policy-making.

PhD candidates are encouraged to reflect upon established and innovative practices in these fields by participating in research activities concerning cities and regions in Italy and abroad, paying particular attention to international comparison. The programme fosters this approach through the organisation of international seminars and periods of internship to be carried out by PhD candidates at one of the research institutes, universities or public agencies that constitute the international reference network of the PhD programme.

The PhD programme in Urban Planning, Design and Policy welcomes foreign and Italian candidates. English is the official language of the programme.

The PhD programme takes advantage of the rich research milieu of the Department of Architecture and Urban Studies (DAStU) and the cooperation with two more PhD programmes offered by DAStU ("Architectural Urban and Interior Design" and "Built Heritage Conservation").

As a Department of Excellence in recognition of the Italian Agency of Evaluation of Research, DAStU operates in the fields of architectural and urban projects; spatial planning and territorial governance; urban policy, conservation and intervention on the built heritage and natural environment; historical and critical interpretation of architecture; and cities and territories. The Department carries out research and fieldwork on the transformation, care, and governance of historical and contemporary settlements and landscapes based on environmental, social, and economic sustainability principles.

DAStU is one of Italy's most important research structures for town and country planning, embedded in a well-established international network of centres of excellence, cooperating with institutional and social actors at the local, national and international level.

Laboratories that test new methods and techniques represent the basic research structure. Professors, researchers, staff and external collaborators are aggregated into four Research Lines: architecture, urban planning, human sciences, along with history, representation and preservation. Thanks to its multidisciplinary approach, the Department offers expertise and on-going projects in a plurality of areas and organisations, including European, national, regional and local authorities, social and economic-based groups, and research institutions.

The Coordinator and a Faculty Board run the PhD programme.

The Coordinator presides the Faculty Board, coordinates the annual Educational Programme's preparation, and organises the PhD programme's general educational activities (see Attachment A1). The Faculty Board is responsible for the Educational programme and administrative activities related to the PhD programme management (see Attachment A2).

### 3. Objectives

The PhD programme focuses on spatial, social, economic and institutional transformations in contemporary cities. It addresses them as a complex of intertwined phenomena, which calls for new governance, planning and design approaches. This PhD programme is a place for scientific research and innovative approaches to urban studies, spatial planning, and urban design by establishing a dialogue with the best European and International schools.

Based on a multidisciplinary approach, the educational programme's main objectives and the individual research activities offer PhD candidates a challenging environment with space for international debate, research, experimentation, and innovation.

From this perspective, the mandatory courses and workshops focus on the following research areas:

- **Planning theories and practices.** Urban planning is not a unitary or self-contained discipline, and planning knowledge and activities can be improved by delving into (and jointly considering) both theoretical and practical issues. The cultures, ethics, traditions and paradigms of planning are varied and have been evolving differently according to their geographical, institutional and political context. Similarly, planning practice is multiform and can be understood from several perspectives. Studying the characteristics, peculiar interpretations, and effects of planning practices constitutes a second relevant research field. Thirdly, the crossroads' selection and discussion between planning and other disciplines can dramatically innovate planning theories and practices.
- **Design topics, forms and tools.** In a scenario of changing socio-economic, environmental and territorial conditions, theoretical and technical issues for the construction of urban projects and the implementation of governance policies are being experimented with to improve life quality. Among them, specific research themes are the role and form of the urban projects in leading territorial transformations; strategies for land and biodiversity preservation and energy conservation; tools for the evaluation and management of urban projects aimed at mastering the feasibility and equity of land development, as well as the sustainability and the design quality of the built environment.
- **Urban studies.** Contemporary cities worldwide face increasing challenges regarding local democracy, sustainable development, management of environmental resources and landscape, social cohesion and cultural diversity. Looking at recent cross-scalar urban changes, the main research topics are forms and processes of the spatialisation of social and economic inequalities; urban segregation; differentiation of urban populations; processes and institutions of urban governance; the spatial impact of social innovation; forms and processes of regionalisation and processes of social, economic and territorial development in local contexts.

The three areas reflect the contents and topics of on-going research at DASTU and represent a good framework of future proposals.

## 4. Professional opportunities and job market

According to its international orientation, the programme intends to train highly qualified researchers and professionals and expects them to work in academic institutions, research centres, public administrations and the private sector in spatial planning, design and management of urban projects and policy, urban studies and urban governance. PhD graduates with such a profile are qualified to be employed by Italian and International academic institutions, public bodies and research centres as well as public and private development agencies.

## 5. Enrolment

### 5.1 Admission requirements

Italian and International citizens can apply. They are requested to have graduated in accordance with the pre-existing laws D.M. 3.11.1999 n. 509, or to have a Master of Science degree in accordance with

D.M. 3.11.1999 n. 509, or a Master of Science in accordance with D.M. 22.10.2004 n. 270, or similar academic title obtained abroad, equivalent for duration and content to the Italian title, with an overall duration of university studies of at least five years.

Certified knowledge of the English language is a requirement for admission. Please refer to the PhD School website for details.

The admission to the programmes will be established according to the evaluation of the candidates' curricula, motivation letters, and an illustrative report about the development of a possible PhD research, which candidates send contextually with their application to the admission announcement.

Particular attention is given to research proposals dealing with the following topics:

- Contemporary landscapes, agricultural, forestry and park systems for the protection and sustainable development of cities and territories
- Urban mobility as an integrated socio-technical and ethical challenge
- Socio-economic drivers of territorial change and their impacts on production, tourism, and services
- Cultural heritage as a laboratory for urban innovation
- Rethinking urbanity: the contribution of urban design and regeneration processes
- Radical uncertainty and its challenges to planning theory and practice
- Digital transition and its challenges to citizenship and the right to the city
- Energy transition in the face of climate change and geopolitical challenges
- Policy innovation to support public administrations in the planning sector

## 5.2 Admission deadlines and number of vacancies

The number of available positions is indicated in the Call for admission to the 41<sup>st</sup> PhD cycle:

<https://www.dottorato.polimi.it/en/prospective-phd-candidates/calls-and-regulations>.

Scholarships on both general and specific topics are available according to what is specified in the Call for admission.

# 6. Contents

## 6.1 Requirements for the PhD title achievement

The achievement of the PhD title in Urban Planning, Design and Policy requires a study and research activity of at least three years equivalent of full-time study, research and PhD thesis development.

PhD candidates in Urban Planning, Design and Policy must earn **20 course credits** (see paragraph 6.3 below) and continuously conduct studies and research.

At the beginning of the course, the Faculty Board assigns a tutor to each PhD candidate to assist him/her in the overall training programme. The tutor shall be a professor affiliated to the Faculty Board. The tutors help candidates to choose courses to be listed in their study plan, which is eventually submitted

for approval to the Coordinator (see also section 6.4 below).

The Faculty Board may assign extra course credits to one or more candidates if they need to complete their preparation in specific topics relevant to their research projects.

Candidates will be asked to demonstrate knowledge of the Italian language, equal to at least A1 level of the Common European Framework of Reference for the knowledge of languages. This requirement will be needed in order to register for the final exam.

Italian native speakers and all those who can demonstrate knowledge of the Italian language to the required level will be exempt. Candidates will be invited to attend Italian courses free of charge.

## **6.2 Research development**

The main aim of all Politecnico di Milano PhD programmes is developing in the candidates a research-oriented mindset, with expertise and skills in a specific research topic. To this end, candidates develop a problem-solving capability in complex contexts, including the capacity of performing in-depth problem analysis, identifying original solutions, and evaluating their applicability in practical contexts. These skills provide PhD candidates with significant development opportunities in their research both in academic and public/private organisations.

PhD candidates are requested to develop an original research contribution. The PhD thesis must thus contribute to increasing the knowledge in the candidate's research field. Besides, it has to be coherent with the research topics developed in the Department, where the PhD Programme is based.

The original research results are collected in the PhD thesis. The candidate's contribution is assessed with respect to state of the art in the specific research field.

The PhD research is developed under the guidance of a supervisor, who supports the candidate in the setting-out and the everyday activities related to thesis development. The supervisor is not necessarily a Faculty Board member and may be affiliated to an institution different from Politecnico di Milano. One or more co-supervisors may support the supervisor.

Other activities intended to develop the candidate's skills and research expertise are encouraged during the PhD training path.

Candidates must develop the capacity to present and discuss their work in their research community. Consequently, both participation in international conferences and the publication of research results in peer-reviewed journals are strongly encouraged.

The PhD programme favours the candidates' interactions with other groups in their research field. Research visits abroad of at least six months are strongly encouraged and economically supported.

PhD candidates may be involved as teaching assistants in bachelor-level and master-level courses. However, this involvement is limited to one course per semester.

## **6.3 Objectives and the general framework of the teaching activities**

The PhD Programmes and the PhD School activate teaching forms of a different kind and credit value, including courses, seminars, project workshops, laboratories. Teaching activities cover the research issues (problems, theories, methods) representing the PhD Programme's founding elements and identifying its cultural position.

Lessons are held in English, except when indicated otherwise. The PhD programme includes at least one complete path delivered in the English language.

Structured teaching activities allow earning ECTS credits. Other activities, typically specialised and for which it is difficult to evaluate the learning and its quantification, fall within the scientific activities the

Faculty Board takes into account in the overall evaluation. Still, they do not allow to earn ECTS.

The PhD School of Politecnico di Milano proposes courses aiming to train the PhD candidates in soft and transferable skills. The skills and abilities provided by these courses help candidates across different areas of their career in order to respond to the rapidly evolving needs of the global economy and society. The PhD School courses activated for the 2025-2026 Academic Year are listed on <https://www.dottorato.polimi.it/en/current-phd-candidates/during-the-phd/study-plan>

At least 10 of the 20 course credits that each candidate is required to earn shall be obtained through soft and transferable skills courses organised by the PhD School.

The courses and workshops activated by the UPDP programme in the first year are the following:

- **Course on research design and methods**
- **Research-by-design workshop**

Each learning activity is subject to grading through oral examination and the submission of a written paper. More details are available on the PhD programme's website.

At the end of the first year, PhD candidates must submit a research project for their PhD dissertation. The second year's admission is subject to a positive evaluation of the individual research project by the Board of professors.

The core activities of the second year are:

- an internship of six months in a foreign university or agency working in the field of urban planning and policy;
- at least one paper presented to an international journal and the participation in an international conference as a speaker.

During the third year, the PhD candidate should devote his/her time to the PhD thesis's research and development.

The supervisor and the Faculty Board will support the thesis' preparation and hold regular meetings with candidates.

In particular, two moments of in-depth discussion of the contents of the thesis are foreseen:

- Before the end of the second year, each PhD candidate will be required to organise a seminar at Politecnico di Milano to discuss the on-going research and its initial outcomes – position paper, methodology and main contents – with scholars invited from outside the Department;
- By the end of the third year, each candidate will be required to present the thesis draft and discuss it with the supervisor and the Faculty Board.

The tables below summarise the candidate's path (as regards coursework activities). Simultaneously, the programme foresees that the candidates are devoted to research activity in a continuous way, following the lead of their supervisors and the Faculty Board.

## First Year

<i>Types of Courses</i>	<i>Course titles</i>	<i>ECTS</i>	<i>Note</i>
PhD School Courses	Two courses freely chosen by the PhD candidate	10	The full list is available on <a href="http://www.dottorato.polimi.it/en/during-your-phd/phd-school-courses">http://www.dottorato.polimi.it/en/during-your-phd/phd-school-courses</a>
Courses characterising the PhD programme	Introduction to Research Methods in Urban planning, design and policy	5	
	Research-by-design Workshop	5	

## Second year

<i>Types of activities</i>	<i>Deliverables</i>
Activities related to thesis writing	Submission of an article to a peer-reviewed international journal
	Internship abroad in a foreign university or agency
	Milestone: evaluation of the content of the thesis

## Third year

In the third year, candidates should be devoted entirely to the development of the PhD thesis. By the end of summer, candidates present their draft thesis in a seminar with the participation of expert discussants. By the end of the year, candidates discuss the final draft of the thesis with the supervisor and the Faculty Board.

## PhD Course List

**A)** The PhD programme in Urban Planning, Design and Policy organises the characterising courses listed in table A.

For admission to the final exam, the acquisition of at least 10 credits in this list is mandatory.

**B)** The PhD School organizes every year general and Interdoctoral courses. The acquisition of **at least 10 credits** is **mandatory** among the courses of B type. The list of PhD courses organized by the PhD School is the following:

TITOLO INSEGNAMENTO	DOCENTE TITOLARE	ECTS
ADVANCED INTERACTION SKILLS FOR ACADEMIC PROFESSIONALS	ARNABOLDI MICHELA	5
COMMUNICATION STRATEGIES THAT SCORE IN WORLDWIDE ACADEMIA	CONCI CLAUDIO	5
CREATIVE DESIGN THINKING	CANINA MARIA RITA	5
DIGITAL HUMANISM	SCHIAFFONATI VIOLA	5
ENGLISH FOR ACADEMIC COMMUNICATION	BISCARI PAOLO	5
ETHICAL ASPECTS OF RESEARCH ON DUAL-USE TECHNOLOGIES	MASARATI PIERANGELO	5
ETHICS OF ARTIFICIAL INTELLIGENCE	ROCCHI DANIELE	5
HOW TO SUPPORT COMPLEX DECISIONS: APPROACHES AND TOOLS	OPPIO ALESSANDRA	5
INDUSTRIAL SKILLS	BISCARI PAOLO	5
INNOVATIVE TEACHING SKILLS	BRUNETTO DOMENICO SAVIO	5
INTRODUCTION TO ACADEMIC RESEARCH	VOLONTE PAOLO GAETANO	5
LA COMUNICAZIONE NELLA SCIENZA	PAGANONI ANNA MARIA	5
POWER OF IMAGES AND VISUAL COMMUNICATION FOR RESEARCH DISSEMINATION	IAROSSI MARIA POMPEIANA	5
PRACTICING RESEARCH COLLABORATION	PIZZOCARO SILVIA LUISA	5
PROFESSIONAL COMMUNICATION	DI BLAS NICOLETTA	5
PROJECT MANAGEMENT (IN ACTION)	MANCINI MAURO	5
PROJECT MANAGEMENT BASICS	FUGGETTA ALFONSO	5
RECORDING WORK 4 BUILDING MEMORY: METHODS, PRACTICES, TOOLS, SKILLS TO MANAGE THE KNOWLEDGE	BOERI ELISA	5
RESEARCH COMMUNICATION. ISSUE MAPPING: EXPLORING PUBLIC DEBATES SURROUNDING ACADEMIC TOPICS	COLOMBO GABRIELE	5
RESEARCH SKILLS	BISCARI PAOLO	5
SCIENCE DIPLOMACY FOR RESEARCHERS. FILLING THE GAP BETWEEN SCIENCE AND POLICY WITHIN THE GLOBAL CHALLENGES	SHENDRIKOVA DIANA	5
SCIENCE, TECHNOLOGY, SOCIETY AND WIKIPEDIA	RAOS GUIDO	5
SCIENTIFIC/ACADEMIC ENGLISH: WRITING AND PRESENTING WITH AND WITHOUT THE SUPPORT OF LLMS	JACCHETTI EMANUELA	5
SCIENTIFIC COMMUNICATION IN ENGLISH	BISCARI PAOLO	5
STRENGTHENING CRITICAL SPATIAL THINKING	ARMONDI SIMONETTA	5
SULLA RESPONSABILITÀ ETICA DELLA TECNICA	OSSI PAOLO MARIA	5
SUSTAINABILITY METRICS, LIFE CYCLE ASSESSMENT AND ENVIRONMENTAL FOOTPRINT	LAVAGNA MONICA	5
TEACHING METHODOLOGIES, STRATEGIES AND STYLES	SANCASSANI SUSANNA	5
THE COPERNICUS GREEN REVOLUTION FOR SUSTAINABLE DEVELOPMENT	OXOLI DANIELE	5

### C) Other courses

Credits can be obtained by choosing from other courses provided by other PhD programmes of Politecnico di Milano and other universities. In this case, prior approval of the tutor and the Coordinator

is required.

### **PREPARATORY COURSES**

Suppose the supervisor and the tutor find it useful or necessary that the candidate attends preparatory courses (selected among the courses activated at Politecnico di Milano). In that case, the Faculty Board may assign some extra-credits to be acquired to complete the training path. The credits earned in this way will be considered additional concerning the mandatory credits earned with the PhD courses.

### **SPECIALISTIC COURSES, LONG-TRAINING SEMINARS**

The attendance of Specialist Courses, Workshops, Summer Schools, Seminar series is encouraged and (if these seminars, workshops are certified and evaluated) may allow acquiring credits according to the procedures established by the Board of Professors and previous approval of the study plan submitted by the candidate. These courses and workshops can be inserted in the study plan, even if they are not evaluated (and therefore not qualified as credits), as optional "additional teaching".

The scheduled course planning for the academic year 2025-26 follows:

**Table A: PHD COURSES CHARACTERISING THE PHD PROGRAMME**

<b>Name of the Course</b>	<b>A.Y./Semester</b>	<b>Language</b>	<b>Credits</b>
Introduction to Research Methods in Urban planning, design and policy	2025/26, 1st	English	5
Research-by-design Workshop	2025/26, 1st	English	5

**Table B SUGGESTED CROSS –SECTORAL COURSES**

<b>Name of the Course</b>	<b>Year</b>	<b>Language</b>	<b>Credits</b>
Strengthening Critical Spatial Thinking	2025/26	English	5

## **6.4 Presentation of the study plan**

PhD candidates must submit a study plan, which may be revised periodically (approximately every three months), in order to adapt it to changes in the course list or needs motivated by the development of the PhD career. The PhD coordinator must approve the study plans.

## **6.5 Yearly evaluations**

Candidates present their work to the Faculty Board at least once a year. In particular, candidates must pass an annual evaluation to be admitted to the next PhD year. The third-year review establishes the candidate's admission to the PhD defence.

As a result of each annual evaluation, the candidates who pass the exam receive an assessment

(A/B/C/D) and may proceed with the following year's enrollment. Candidates who do not pass the exam are qualified either as "Repeating candidate" (Er) or "not able to carry on with the PhD (Ei)". In the former case (Er), the candidates are allowed to repeat the PhD year at most once. The PhD scholarships – if any – are suspended during the repetition year. In the latter case (Ei) the candidates are excluded from the PhD programme and lose their scholarships – if any.

In case the Faculty Board holds appropriate to assign an exclusion evaluation (Ei) directly without a previous repetition year, the request must be adequately motivated and validated by the PhD School. After the final year, candidates who have achieved satisfactory results but need more time to draw up their theses may obtain a prorogation of up to 12 months.

## **6.6 PhD thesis preparation**

The main objective of the PhD career is the development of original research contributions. The PhD thesis is expected to contribute to advancing the knowledge in the candidate's research field.

The PhD study and research work are carried out full time during the three years of the PhD course. Stages or study periods in (Italian or International) companies or external Institutions may complete the candidate's preparation.

The resulting theses need to be coherent with the research issues developed in the Department where the PhD programme is based.

Candidates must present an original thesis and discuss its contribution to the state of the art in their relevant research community.

The PhD research is developed following the lead of a supervisor who supports the candidate in the setting out and development of the thesis.

At the conclusion of the PhD studies, the Faculty Board evaluates the candidates. Candidates who receive a positive evaluation submit their theses to two external reviewers for refereeing. If the assessment provided by the reviewers is positive (or after the revisions required by the external reviewers), candidates defend their thesis in a final exam, in front of a committee composed of three members (at least two of which must be external experts).

## **7. PhD Secretary Services**

Mrs Marina Bonaventura and Mrs Marilena Mastalli

Department of Architecture and Urban Studies

3 Bonardi Street, first floor

Telephone: +39-02-2399.5165 / 5405

E-mail: [marina.bonaventura@polimi.it](mailto:marina.bonaventura@polimi.it)

## **8. Internationalisation and other activities**

Carrying out study and research activities at external laboratories is strongly recommended.

Politecnico di Milano supports joint PhD paths with International Institutions and Joint and Double PhD programmes. Further information is available on the PhD School's website and the PhD programme's website.

The PhD programme in Urban Planning, Design and Policy cooperates with:

<b>Affiliated foreign universities</b>	<b>Type of cooperation</b>
<i>Universiteit van Amsterdam, Faculty of Social and Behavioural Sciences</i>	<i>Training activities – seminars and participation in the Advisory board</i>
<i>TU Berlin</i>	<i>Agreement on joint research and teaching activities signed with DASTU</i>
<i>Panteion University (project leader)</i>	<i>Innovative Training Networks (ITN); Coral Call: MSCA-ITN-2021-2024</i>
<i>TU Delft</i>	<i>Idea League, exchange of students</i>
<i>Scuola universitaria professionale della Svizzera italiana</i>	<i>Executive PhD</i>
<i>Universidade de São Paulo</i>	<i>Double PhD agreement, exchange of students and teaching staff</i>

Interaction with and exposure to non-academic sectors provides significant benefits to doctoral candidates. Direct exposure to the challenges and opportunities in non-academic sectors of the economy and society is fostered by networking, connectivity, inter-sectoral mobility and broad access to knowledge. The PhD programme in Urban Planning, Design and Policy cooperates with Research Agencies, Public institutions and private companies.

<i>Inter-sectorial collaborations</i>	<i>Kind of collaboration</i>
<i>C.C.L. Consorzio Cooperative Lavoratori</i>	<i>Financing of Scholarships</i>
<i>Federcasa</i>	<i>Financing of scholarships</i>
<i>INPS</i>	<i>Financing of scholarships</i>
<i>JRC Ispra</i>	<i>Joint supervision of a PhD candidate and co-financing of scholarships</i>
<i>Fondazione Giangiacomo Feltrinelli</i>	<i>Co-financing of scholarships</i>
<i>MIC-HUB</i>	<i>Co-financing of scholarships</i>

# Attachment A1 – PhD Programme Coordinator

## EUGENIO MORELLO

### *Business Address*

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WoS [webofscience.com/wos/author/record/1952112](https://webofscience.com/wos/author/record/1952112)  
SCOPUS [Author ID: 25321189900](https://scopus.com/authorid/25321189900)

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An architect by education, Eugenio Morello is an Associate Professor in Urban Planning and Design and since 2025 is the Chair of the Doctoral Programme in Urban Planning, Design and Policy at the Department of Architecture and Urban Studies (Dastu), Politecnico di Milan. He is the coordinator and research scientist at the 'Laboratorio di Simulazione Urbana Fausto Curti', Department of Architecture and Urban Studies (Dastu). Since 2020 is also the scientific coordinator of the 'Climate Change Risk and Resilience Lab' at Dastu. For the Department he is and has been the responsible investigator of several European and national projects.

In the period 2017-2022, he was the Rector's Delegate for environmental sustainability and responsible for institutional projects toward a sustainable campus. He was previously a Roberto Rocca postdoctoral fellow at the Human Space Lab, Polimi (2009), and at the SENSEable City Lab, MIT (2008). Earlier, he was an adjunct professor at Polimi (2006-2009), where he taught sustainable urban design. He holds a Ph.D. in Technology and Design for Environmental Quality at the Building and Urban Scale from Polimi (2006).

His research interest is situated in the interplay between urban design and planning and environmental quality, climate design, resilience, and adaptation to climate change. He investigates the integration of environmental aspects and urban transition solutions for the design of sustainable communities and cities toward the closing of energy and environmental cycles. In particular, he focuses on the assessment of environmental resources and renewable sources (mainly solar and biomass) and their spatial implications at the local and regional scale. He is also working on strategic planning for sustainability and localizing Sustainable Development Goals (SDGs) in master-planning design schemes and Higher Education Institutions. More recently, his research has opened new insights into collaborative consumption and sharing society and how these new paradigms can inform urban governance, planning, urban design, and co-design approaches.

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## EXPERIENCE

**Politecnico di Milano** Milano, IT  
(March 2018, since) Associate Professor in Urban Planning at the Dip. di Architettura e Studi Urbani, Laboratorio di Simulazione Urbana Fausto Curti. Research focuses on sustainable urban planning, climate action and energy transition.

**Politecnico di Milano** Milano, IT  
(March 2015 – February 2018) Assistant Professor (senior position) at the Dip. di Architettura e Studi Urbani, Laboratorio di Simulazione Urbana Fausto Curti. Research focuses on future energy scenarios and the city.

**Politecnico di Milano** Milano, IT  
(July 2010 – June 2014) Assistant Professor (junior position) at the Dip. di Architettura e Studi Urbani, Laboratorio di Simulazione Urbana Fausto Curti. Research focuses on future energy scenarios and the city.

**Politecnico di Milano** Milano, IT  
(May 2009 – April 2010) Roberto Rocca Postdoctoral Fellow. Dipartimento di Architettura e Pianificazione, Human Space Laboratory and Laboratorio di Simulazione Urbana. Research focuses on sustainable urban design, in particular on the implementation of digital simulation tools for assessing the environmental performance of the urban form.

**Massachusetts Institute of Technology** Cambridge, MA

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(February 2008 – January 2009) Roberto Rocca Postdoctoral Fellow. Department of Urban Studies and Planning, Senseable City Laboratory. Research focuses on sustainable urban design, in particular on the implementation of digital simulation tools for assessing the environmental performance of the urban form.

**Politecnico di Milano**

Milano, IT

(May 2006 – August 2007) BEST and ANDIL Postdoctoral Fellow. Department of Building, Environment, Sciences and Technology. Research focuses on sustainable urban design, in particular digital simulation tools for assessing the environmental performance of the urban form.

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**EDUCATION**

**Politecnico di Milano**

Milano, IT

(May 2006) Ph.D. cum laude, Department of Building, Environment, Sciences and Technology. Thesis: *Urban Morphology and the Environmental Quality: Tools to Assess the Strategies for the Compact City at the Scale of Urban Design* (supervisor: Andrea Campioli).

**Massachusetts Institute of Technology**

Cambridge, MA

(January 2005 – November 2005) Visiting Ph.D. candidate. Department of Urban Studies and Planning (DUSP), Senseable City Laboratory.

**Politecnico di Milano**

Milano, IT

(2002) MSc in Architecture, cum laude. Thesis: *Pole Europe: esperienza di progettazione integrata a distanza*. Thesis as the result of the participation to the research program “POLE-Europe” on e-learning in architecture and urban design in Aargau (CH).

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**TEACHING EXPERIENCE**

Since 2015 he is a member of the board of the Ph.D. programme named ‘Urban Planning, Design and Policy’ at Polimi, contributing to its teaching activities. Since 2011 he is the principal instructor of an urban design studio named ‘Energy, Climate and Urban Planning’ offered at the MSc programme in Urban Planning and Policy Design, where he explores the spatial and physical dimensions of urban transition and resilience solutions. Since 2022 he is the instructor of the course ‘Digital Technologies and Sustainable Development’ at the School of Design, offered to MSc students of different programs at Polimi. Since 2017 he is also the teacher of the course ‘Environmental Design Principles’, in the Bachelor programme in Urban Planning, with a specific focus on urban ecology and sustainable development applied to urban design.

**Politecnico di Milano, Ph.D. School, Dastu, Urban Planning, Design and Policy Ph.D. Programme**

*Introduction to Research Methods*. Ph.D. course (Winter Semesters 2022/23, 2023/24)

Main instructor together with Prof. Carolina Pacchi. Organized and coordinated the seminars with external guests. Prepared and supervised assignments for participants.

**Politecnico di Milano, School of Design**

*Digital Technologies & Sustainable Development*. Offered to 8 MSc programmes (Fall Semesters, since 2022). Main instructor together with Prof. Fiammetta Costa. Lectures series and supervision of students. Prepared and supervised assignments and conducted exams.

**Politecnico di Milano, POLIMI**

*Postgraduate Master Reinventing Energy Renewables, Decentralization, Efficiency and Strong Sustainability (RIDEF 2.0)*. Lectures on Sustainable Urban Planning and Design of 2 hours (Fall Semester 2021, 2022, 2023).

**Università degli Studi di Milano Bicocca, UNIMIB**

*Postgraduate Master in Sustainable Development Jobs (SDJ)*. Teaching 23 hours of lectures on Sustainable Urban Planning and Design (Fall Semester 2019) (Fall Semesters 2020, 2021).

**Politecnico di Milano, METID**

*Higher Education for the Sustainable Development Goals (HE4SDGs)*. Polimi Open Knowledge MOOC (Spring 2019).

Main Scientific Coordinator of the online course. Organized and supervised the content with Prof. Paletta UNIBO with the support of METID Polimi. Recorded three lectures.

**Politecnico di Milano, School of Architecture Urban Planning Construction Engineering**

*Energy, Climate and Urban Planning Studio*. MSc in Urban Planning and Policy Design (Fall Semesters, since 2020). Main instructor together with Prof. Barbara Piga and Nicola Colaninno. Ex cathedra lectures and supervision of students with design reviews. Prepared and supervised assignments and conducted exams.

**Politecnico di Milano, School of Architecture Urban Planning Construction Engineering**

*Energy and Urban Planning Studio*. MSc in Urban Planning and Policy Design (Fall Semesters, 2011-2019). Main instructor together with Prof. Stefano Pareglio. Ex cathedra lectures and supervision of students with design reviews. Prepared and supervised assignments and conducted exams.

**Politecnico di Milano, School of Architecture Urban Planning Construction Engineering**

*Elementi di Progettazione dell'Ambiente*. Bachelor in Urban Planning (Spring Semesters, since 2017). Main instructor together with Prof. Renato Casagrandi. Ex cathedra lectures and supervision of students with exercises. Prepared and supervised assignments and conducted exams.

**Politecnico di Milano, Ph.D. School, ABC Dept., Architecture, Built Environment and Construction Engineering Ph.D. Programme**

*Digital mapping & Spatial Data Analysis*. Ph.D. seminal lecture series (Spring Semester 2020). Instructor of six hours of lectures on digital mapping. Supervised assignments for participants.

**Politecnico di Milano, Ph.D. School, ABC Dept., Architecture, Built Environment and Construction Engineering Ph.D. Programme**

*Digital mapping & Spatial Data Analysis*. Ph.D. seminal lecture series (Fall Semester 2018). Instructor of six hours of lectures on digital mapping. Supervised assignments for participants.

**Politecnico di Milano, Ph.D. School, Dastu, Urban Planning, Design and Policy Ph.D. Programme**

*Open Spaces Design*. Ph.D. seminal lecture series (Winter Semester 2017). Main instructor together with Prof. Andrea Arcidiacono. Organized and coordinated the seminars with external guests. Prepared and supervised assignments for participants.

**Politecnico di Milano, School of Architecture Urban Planning Construction Engineering**

*Interpretazioni per il Progetto del Paesaggio e dell'Ambiente Course*. Bachelor in Urban Planning (Spring Semester 2016). Main instructor together with Prof. Paolo Bozzuto. Ex cathedra lectures and supervision of students with exercises. Prepared and supervised assignments and conducted exams.

**Politecnico di Milano, Faculty of Architecture and Society**

*Eco-Urban Design Studio*. MSc in Architecture (Fall Semester 2011) (Fall Semester 2010) (Spring Semester 2010). Adjunct professor. Main instructor Prof. Grazia Concilio. Ex cathedra lectures and supervision of students with design reviews. Prepared and supervised assignments and conducted exams.

**Politecnico di Milano, DiAP Dept., Ph.D. course in Territorial Design and Government**

Tutorship for Ph.D. candidates (Fall Semester 2010 – 2013). Ph.D. programme director Prof. Rossella Salerno. Supervision of Ph.D. candidates. Helped in organizing activities.

**Politecnico di Milano, Faculty of Architecture and Society**

*Eco-Urban Design Studio*. MSc in Architecture (Fall Semester 2010) (Spring Semester 2010) (Spring Semester 2009). Adjunct professor. Main instructor Prof. Lidia Diappi. Ex cathedra lectures and supervision of students with design reviews. Helped write assignments and exams.

**Politecnico di Milano, DiAP Dept., Ph.D. course in Territorial Design and Government**

Tutorship for Ph.D. candidates (Fall Semester 2009 – Spring Semester 2010). Ph.D. programme director Prof. Fausto Curti. Supervision of Ph.D. candidates. Helped in organizing activities.

**University of Strathclyde, Glasgow, Master in Urban Design**

*Urban Design Studio*. MSc in Urban Design (2009). Visiting tutor. Main instructor Prof. Ombretta Romice. Ex cathedra presentations and supervision of students with design reviews. Helped write assignments and exams.

### **Politecnico di Milano, Faculty of Architecture and Society**

*Eco-Urban Design Studio* (Spring Semester 2009). Adjunct professor. Main instructor Prof. Sergio Porta. Ex cathedra lectures and supervision of students with design reviews. Helped write assignments and exams.

### **Politecnico di Milano, Faculty of Architecture and Society**

*Eco-Urban Design Studio*. MSc in Architecture (Fall Semester 2007). Teaching Assistant. Main instructor Prof. Lidia Diappi. Presentations and supervision of students with design reviews. Helped write assignments.

### **Politecnico di Milano, Faculty of Civil Architecture**

*Urban Design Studio*. Bachelor in Architecture (Fall Semester 2008 & Spring Semester 2009) (Fall Semester 2007 & Spring Semester 2008) (Fall Semester 2006 & Spring Semester 2007). Adjunct professor with Prof. Sergio Porta (main instructor). Ex cathedra lectures and supervision of students with design reviews. Helped write assignments and exams.

## **LEADERSHIP ACTIVITIES**

### *Institutional appointments*

(2025 - 2027) **Chair of the Doctoral Programme in Urban Planning, Design and Policy**, Dastu, Politecnico di Milano

(2024, since) **Responsible Person for Polimi Dastu for the NbS Italy Hub**, funded under the EU Project 'NetworkNature' and led by CNR, and Member of the Steering Committee.

(2021 - 2022) **Scientific Vice-Director of LaborA**, the physical and virtual modeling laboratory at Politecnico di Milano, School of Architecture. Responsible for the scientific coordination of the experiential simulation infrastructure and virtual theater.

(2020, since) **Scientific coordinator of the "Climate Change, Risk and Resilience Lab"** at Dastu, POLIMI. Responsible for the scientific coordination of research directions and activities.

(2017 - 2022) **Rector's Delegate for Environmental Sustainability**, Polimi.

- Responsible for the redesign of the strategic vision of environmental sustainability at Polimi
- Coordinating the activities of the inter-university project "Città Studi Campus Sostenibile" with Unimi
- Supporting and promoting the Sustainable Development Goals at university: responsible person for the first SDGs-mapping survey at Polimi.
- Scientific coordinator of the Polimi Open Knowledge MOOC on Higher Education for the SDGs (2018/19).
- Responsible for the sustainability reporting of the university.

(2010, since) **Scientific coordinator of the "Laboratorio di Simulazione Urbana Fausto Curti"** at Dastu, POLIMI.

Responsible for the environmental simulation research, and the management of research funds.

### *Academic appointments to evaluation boards*

(2023, since) **Member of the Scientific Committee of the Postgraduate Master in Sport Design and Management**, Politecnico di Milano, ABC Dept and GSOM.

(2023-2025) Scientific co-supervisor of **Systems and Engineering Science Doctorate (SEED) MSCA COFUND** programme, coordinated by **LUT University**, Lappeenranta, FI. Research theme: Urban socio-digital innovations for better air quality. Role: helped writing the proposal, recruitment and supervision of one doctoral student.

(2015, since) **Member of the board of the Ph.D. Programme on 'Urban Planning, Design and Policy'**, Polimi.

- (2015, since) Supervisor of six Ph.D. candidates, namely (from the most recent): Asef Ayatollahi, Chenling Wu, Doruntina Zendeli, Anna Giulia Castaldo, Gabriela Fernandez, Aldo Treville.
- (2022, 2023, winter) Organization with C. Pacchi of the Ph.D. course "Introduction to Research Methods".
- (2017, winter) Organization with A. Arcidiacono of the Ph.D. seminal lecture series "Open Spaces Design".

(2018, since) **Member of the examining commissions for the position of assistant professorships**: (2022) Università di Trento, (2022) Politecnico di Milano – President, (2021) Università Iuav di Venezia, (2021) Politecnico di Milano – President, (2018) Iuav.

(2014, since) **Member of doctoral final exam commissions**, 10 Ph.D. theses evaluated: (2023) Politecnico di Torino, (2022) Università Federico II di Napoli, (2022) Università di Trento, (2014) University of Strathclyde.

*Invited expert to scientific committees and working groups*

(2024, since) **Member of the Technical Scientific Committee of the Air Climate Plan of Milan**, appointed by the City of Milan, Milan, IT.

(2024, since) **Responsible Person for Dastu for the Network Nature Nature-based Solutions (Nbs) Italy Hub and Member of the Steering Committee.**

- (2025) Co-organizer with the Metropolitan City of Milan of the III NBS Italy Hub Annual Meeting in Milan.
- Attended the Annual Meetings in Rome (2023), Palermo (2024).

(2022) **Scientific Committee of the 4<sup>th</sup> SSPCR Conference** in Bolzano, Italy.

(2021, since) **Expert in the Technical Working Group for revising the National Plan for Adaptation to Climate Change**, appointed by the Italian Ministry of Ecological Transition.

(2020) **Expert in the NBS Task Force 2** as part of the NETWORK NATURE EC funded project; contributed to the scientific debate and reporting of a chapter in the EC Report "Evaluating the impact of nature-based solutions".

(2019) **Expert in the Working Group Societal Engagement and the EU Post-2020 Biodiversity Strategy** as part of the EKLIPSE EC funded project; contributed to the scientific debate and organized an engagement event.

(2019, since) **Member of the Scientific Committee of Poliedra, consortium at the Politecnico di Milano**

(2018, since) **Expert on REPRISE** (Register of Expert Peer-Reviewers for Italian Scientific Evaluation, MIUR)

(2016-2018) **Member of the International Sustainable Campus Network (ISCN) Advisory Board**

(2014-2016) **Co-chair of the International Sustainable Campus Network (ISCN) Working Group 2** on 'Campus wide planning and target setting'. Organized WG2 activities at the ISCN symposia 2014, 2015, 2016, 2017.

(2011-2017) **Member of the board of the POLIMI and UNIMI project "Città Studi Campus Sostenibile"**. Responsible for the following main tasks:

- Reference person for the relationship with the International Sustainable Campus Network (ISCN). Main author of the POLIMI ISCN annual reports since 2011. Participated to the annual symposia since 2011.
- Coordinator of the thematic "Table Environment", which promotes environmental activities and projects on campus, and involves about 70 participants (professors, researchers and students).
- Organized events and exhibitions of the project ("Giornate della Sostenibilità: Focus Ambiente" in 2013, "Mostra Tesi per un Campus Sostenibile" at POLIMI in 2012 and 2013, at "MADE Expo" in 2011).

*Organization of conferences and seminars – a selection*

(2024, May 13) II National Event for the presentation of the EU Mission "A Soil Deal for Europe" | Scientific coordination with TRUST-IT and organizational committee of the event.

(2023, October) "Climate Action at Universities", international seminar within the Climate Wunderkammer Collateral Event at La Biennale di Venezia, IUAV | Scientific co-coordinator and co-organizer of the event.

(2023) Principal organizer of the "Festa dell'Aria 3", as part of the Air-Break project, Ferrara, Italy.

(2023, June) "Atlas of Hope Conference", international seminar within the Climate Wunderkammer Collateral Event at La Biennale di Venezia, IUAV, Palazzo Badoer | Scientific co-coordinator and co-organizer of the event.

(2023, March 15) Seminar hosted by Politecnico di Milano, Milano IT "Strategie e strumenti per la rigenerazione sostenibile e adattiva delle aree produttive" | Organised and co-chaired the seminar

(2023, March 10) National Event for the presentation of the EU Mission "A Soil Deal for Europe" | Scientific coordination with TRUST-IT and organizational committee of the event.

(2022, October) Principal organizer of the "Festa dell'Aria 2", as part of the Air-Break project, Ferrara, Italy.

(2022, July) SSPCR 2022, hosted by EURAC, Bolzano IT | Organised and co-chaired The Special Session for Track 3 titled "Augmented NBS for Cities"

(2022, October) EURA 2022, hosted by Politecnico di Milano, Milano IT | Organised and co-chaired the Track 6 titled "Sustainability as a challenge, within an integrated perspective"

(2021) Principal organizer of the “Festa dell’Aria 1”, as part of the Air-Break project, Ferrara, Italy.

(2020) Chair and Organization with I. Mahmoud of the International Research Symposium “Greening Cities Shaping Cities”, October 12-13 2020, Politecnico di Milano, Milan, Italy.

(2018) Chair and Organization with G. Salvia and A. Arcidiacono of the International Research Symposium “Sharing Cities Shaping Cities”, March 5-6 2018, Politecnico di Milano, Milan, Italy.

(2017) Organization with B. Piga and the Ambiances Network of the Research Seminar and Workshop “Translation in professional terms: in quest of and the Ambiances Network modus operandi” as part of the Groupement de Recherche International (GDRI) funding programme, June 12-14, Politecnico di Milano, Milan, Italy.

(2017) Organization with B. Piga and the Ambiances Network of the “Mobiance 3” Workshop and Research Seminar, February 27 – March 3, with 20 international students in urban planning, architecture and engineering, Politecnico di Milano, Milan, Italy.

(2015) Organization with B. Piga of the Research Seminar and Workshop “Quality and quantity of visual perception: recent ICT improvements for tridimensional visibility analysis”, November 23-24 2015, Politecnico di Milano, Milan, Italy.

(2014) Organization with B. Piga of the Research Seminar and Workshop “Computational Design and Research: current research at Aedas R&D”, within the 'Architectural and Urban Simulation' course, Politecnico di Milano, Milan, Italy.

(2013) Organization with B. Piga of the International Conference “EAEA11 2013. Envisioning Architecture: Design, Evaluation, Communication”, September 25-28 2013, Politecnico di Milano, Milan, Italy.

(2013) Organization with P.L. Paolillo and C.U. Comi of the Seminar “Urban Utilities: Il trattamento del dato al servizio del luogo” at DASTU, Politecnico di Milano, Milan, Italy.

(2011) Organization with S. Pareglio of the seminar "Città e cambiamento climatico: l'azione locale", Politecnico di Milano, Milan, Italy.

(2010) Organization with A. Arcidiacono, B. Piga and V. Signorelli of the seminar "Exploring Urban Change through Visual and Environmental Simulation", Politecnico di Milano, Milan, Italy.

#### *Memberships to boards, associations and journals*

(2024, since) Member of the NBS Italy Hub – Steering Committee – to represent Dastu.

(2015-2024) Member of the Editorial Board of the Journal “Territorio” published by Franco Angeli.

(2015) Guest editor of the International Journal of Sensory Environment, Architecture and Urban Space.

(2012, since) Labsimurb Member of International Ambiances Network.

(2010, since) Member of the Editorial board of the “International Journal of Sustainable Society”, Inderscience.

(2010, since) Labsimurb member and board member of the European Architectural Envisioning Association.

#### **CURATORSHIP AND PARTICIPATION TO EXHIBITIONS**

(2023) “X-Cities Extended Cities tra ambienti virtuali e fisici”, Mostra di cultura politecnica, Politecnico di Milano, Milano, Italy. Curator with C. Bolognesi and P.L. Lanzi.

(2023) “Climate Wunderkammer”, invited Collateral Event of the XVIII Biennale di Venezia, Venice, Italy. Video web installation and cycle of seminars. Curator with C. Reicher, C. Sezer, F. Musco.

(2019) “The Air between Buildings” 4 Elements Taking Care, Broken Nature, XXII Triennale di Milano.

(2009) “Trash Track” – A SENSEable City Laboratory, video web installation at the Situated Technologies exhibition organized by the Architectural League of New York, USA. Participation in the project team as project leader and contribution to concept design.

(2005, October–2006, January) “mobile landscape | graz in real time” – A SENSEable City Laboratory video web installation at the M-City exhibition, Kunsthau Graz, Austria. Participation in the project team for concept design and graphic design.

(2003, October) “Pole Europe Project 2k’2+2k’3”, Faculty of Architecture and Society, Politecnico di Milano, Milano, Italy. Organization and installation of the exhibition.

(2002, July) – “Pole Europe 2k’2”, FHA, Windisch, Switzerland. Exhibition of the final work.

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#### **PROFESSIONAL EXPERIENCE**

##### *Consultancy in environmental urban design:*

(2023) **Reinventing Cities Milan - design contest 3**, Phase 1, “Altopiano”, Design: Stefano Boeri Architetti. Role: Sustainability consultancy for climate planning and design for human comfort in outdoor spaces.

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(2020) **Reinventing Cities Milan - design contest 2, Winning project**, 1st prize “Loreto Open Community (LOC)”, Design: Arcadis Italia, Metrogramma, Studio Andrea Caputo, MIC – Mobility In Chain, LAND, Temporiuso, Squadrati, IGPDecaux, Siemens, Helexia Italia, Alchemia, Renovatio Design. Role: Sustainability consultancy for localizing SDG in the masterplan.

(2020) SOAS University of London. Writing of the teaching unit “Energy and the City: Resources and Transition Challenges” for the distance learning course named ‘Urban Sustainability’.

(2019) **Reinventing Cities Milan - design contest 1, Winning project**, 1st prize “VITAE”, Design: Carlo Ratti Associati. Role: Consultant with B.E.A. Piga for co-creation and participation through immersive experience and simulation.

(2018-2019) **Grand Plan Genève**. Selected team for by the Canton Genève for proposing the vision of the city in 2030. Project Leader: Stefano Boeri Architetti. Role: Climate planning consultancy.

(2018-2019) **Scalo Farini and San Cristoforo**, Milan, urban design competition. Selected team by FS, FS Sistemi Urbani and RFI. Project Leader: Baukuh. Role: Climate planning consultancy.

(2011) **State of Geneva Solar Cadaster**. Role: principal investigator together with LASIG EPFL and HEPIA HES-SO. Development of tools for the assessment of solar irradiation at the regional scale.

(2010) **King Abdullah City for Atomic and Renewable Energy**, Saudi Arabia. Invited urban design competition. Project leader: Carlo Ratti Associati, Torino and Boston. Role: team member responsible for the environmental simulation and algorithmic design for the site layout planning of the new city.

(2007) “Riqualficazione del centro storico di **Castelfranco Emilia**”, Urban design competition. **Winning project**, 1st prize. Design: C.A.I.R.E. Reggio Emilia, Italy. Role: urban environmental quality consultant with Sergio Porta.

## OTHER SKILLS

(2003, since) EU licensed architect; Registration: Member n. 987 of “Ordine degli Architetti della Provincia di Bolzano”. Languages: Italian (native), English (very good), German (very good).

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## PUBLICATIONS

### Peer-reviewed international articles [21]

1. Zendeli D., Colaninno N., Maiullari D., van Esch M., van Timmeren A., Marconi G., Bonora R., Morello E., 2025, “From heatwaves to ‘healthwaves’: A spatial study on the impact of urban heat on cardiovascular and respiratory emergency calls in the city of Milan”, *Sustainable Cities and Society*.
2. Wu C., Eldesoky A. H., Morello E., 2025, “Understanding the effect of built-up and green spaces upon air quality at multiple spatial scales: A systematic literature review”, *Landscape and Urban Planning*, 257, 105304.
3. De Toni A., Morello E., 2025, Sustainable Regeneration of Industrial Areas through Enterprise Engagement in Collaborative Design, in *Journal of Cleaner Production*, 494, 144936.
4. Lucini D., Luconi E., Giovanelli L., Marano G., Bernardelli G., Guidetti R., Morello E., Cribellati S., Brambilla M. M., Biganzoli E. M. (2024). Assessing Lifestyle in a Large Cohort of Undergraduate Students: Significance of Stress, Exercise and Nutrition, *Nutrients*, 16(24), 4339.
5. Mahmoud, I., Morello, E., Bisello, A., Kolokotsa, D., 2024, “Embedding technologies for improving Nature-Based Solutions performance and fostering social inclusion in urban greening strategies: Augmented NBS for cities”, *Urban Forestry & Urban Greening*, 93, 128215.
6. Colaninno N., Morello E., 2022, “Towards an operational model for estimating day and night instantaneous near-surface air temperature for urban heat island studies: outline and assessment”, in *Urban Climate*, 46, pp. 1-32.
7. Mahmoud I., Morello E., Salvia G., Puerari E., 2022, “Greening Cities, Shaping Cities: Pinpointing Nature-Based Solutions in Cities between Shared Governance and Citizen Participation”, in *Sustainability*, 14, pp. 1-7.
8. Mahmoud I., Morello E., Vona C., Benciolini M., Sejdullahu I., Trentin M., Herranz Pascual K., 2021, “Setting the Social Monitoring Framework for Nature-Based Solutions Impact: Methodological Approach and Pre-Greening Measurements in the Case Study from CLEVER Cities Milan”, in *Sustainability*, 13, pp. 1-28.
9. Mahmoud I., Morello E., Salvia G., Ludlow D., 2021, “Co-creation pathways to inform shared governance of Urban Living Labs in practice: Lessons from three European projects”, in *Frontiers in Sustainable Cities*, 1:19.

10. Varumo L., Yaneva R., Koppel T., Koskela I.M., Garcia M.C., Sozzo S., Morello E., Dictor M.C., 2020, "Perspectives on Citizen Engagement for the EU Post-2020 Biodiversity Strategy: An Empirical Study", in *Sustainability*, 12:4, 1532 pp. 1-25.
11. Eldesoky A., Colaninno N., Morello, E., 2020, "Mapping urban ventilation corridors and assessing their impact upon the cooling effect of greening solutions", in *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, XLIII-B4-2020, pp. 665–672.
12. Salvia G., Morello E., Rotondo F., Sangalli A., Causone F.; Erba S., Pagliano L., 2020, "Performance Gap and Occupant Behavior in Building Retrofit: Focus on Dynamics of Change and Continuity in the Practice of Indoor Heating", in *Sustainability*, 12:14, 5820 pp. 1-25.
13. Ferla G., Caputo P., Colaninno N., Morello E., 2020, "Urban greenery management and energy planning: a GIS-based potential evaluation of pruning by-products for energy application for the city of Milan", in *Renewable Energy*, 160, pp. 185-195.
14. Messori G., Brocchieri F., Morello E., Ozgen S., Caserini S., 2020, "A climate mitigation action index at the local scale: Methodology and case study", in *Journal of Environmental Management*, 260, pp.1-8.
15. Salvia G., Morello E., 2020, "Sharing cities and citizens sharing: Perceptions and practices in Milan", in *Cities*, 98, pp. 1-15.
16. Desthieux G., Carneiro C., Camponovo R., Ineichen P., Morello E., Boulmier A., Abdennadher N., Dervey S. and Ellert C., 2018, "Solar Energy Potential Assessment on Rooftops and Facades in Large Built Environments Based on LiDAR Data, Image Processing, and Cloud Computing. Methodological Background, Application, and Validation in Geneva (Solar Cadaster)", in *Frontiers in Built Environment*, 4:14.
17. Piga B. E. A., Morello E., 2015, Environmental design studies on perception and simulation: an urban design approach, in *International Journal of Sensory Environment, Architecture and Urban Space: Special Issue on Experiential Simulation in Architecture and Urban Design*, pp. 2-21.
18. Carneiro C., Morello E., Voegtli T., Golay F., 2010, "Digital urban morphometrics: Automatic extraction and assessment of morphological properties of buildings", in *Transactions in GIS*, 14:4, pp. 497-531.
19. Morello E., Ratti C., 2009, "SunScapes: 'solar envelopes' and the analysis of urban DEMs", in *Computers, Environment and Urban Systems*, 33:1, pp. 26-34.
20. Morello E., Ratti C., 2009, "A Digital Image of the City: 3-D isovists in Lynch's Urban Analysis", in *Environment and Planning B: Planning and Design*, 36:5, pp. 837-853.
21. Mangiarotti A., Paoletti I., Morello E., 2008, "A model for programming design interventions aimed at reducing thermal discomfort in urban open spaces", in *Journal of Green Building*, 3:4, College Publishing, Glen Allen VA, USA, pp. 119-129.

### Peer-reviewed book contributions [12]

1. Morello E., forthcoming in 2025, "The future of Urban Greening Strategies between planning, shared governance models and technologies", in Iannaccone G. & Ellis E. (eds.), *Towards a nature-positive built environment*, Springer International Publishing, Switzerland.
2. Mahmoud I., Morello E., Bisello A., Kolokotsa D., 2024, "Augmented Nature-Based Solutions: A Possible Taxonomy of Technologies "in" and "for" Urban Greening Strategies", in Bisello A., Vettorato D., Bottero M., Kolokotsa D. (eds.), *Smart and Sustainable Planning for Cities and Regions*, Springer – Green Energy and Technology Series (ISSN: 1865-3529), pp. 125 - 139.
3. Mahmoud I., Morello E., Rizzi D., Wilk B., 2022, "Localizing Sustainable Development Goals (SDGs) Through Co-creation of Nature-Based Solutions (NBS): Towards an Assessment Framework for Local Governments", in Bears R. (ed.), *The Palgrave Encyclopedia of Urban and Regional Futures*, Springer International Publishing, Switzerland, pp. 1-17.
4. Frantzeskaki, N., Mahmoud I., Morello E., 2022, "Nature-Based Solutions for Resilient and Thriving Cities: Opportunities and Challenges for Planning Future Cities", in Mahmoud I., Morello E. Lemes de Oliveira F., Geneletti D. (eds.), *Nature-based Solutions for Sustainable Urban Planning Greening Cities, Shaping Cities*, Contemporary Urban Design Thinking Series, 1, Springer Nature, Switzerland, pp. 3-17.

5. Hosseinalizadeh S., Mahmoud I., Morello E., 2022, "A Deduced Method for Assessing Safety and Security Perception: Case Study of Biblioteca degli Alberi Park in Milan, Italy", in Mahmoud I., Morello E. Lemes de Oliveira F., Geneletti D. (eds.), *Nature-based Solutions for Sustainable Urban Planning Greening Cities, Shaping Cities*, Contemporary Urban Design Thinking Series, 1, Springer Nature, Switzerland, pp. 199-232.
6. Mahmoud I., Morello E., 2021, "Co-creation pathway for urban Nature-based Solutions: Testing a shared governance approach in three cities and nine action labs", in Bisello A., Vettorato D., Ludlow D., Baranzelli C. (eds.), *Smart and Sustainable Planning for Cities and Regions*, Springer – Green Energy and Technology Series (ISSN: 1865-3529), pp. 259 - 276.
7. Skodra J., Connop S., Tacnet J. -M., Van Cauwenbergh N., Almasy D., Baldacchini C., Basco Carrera L.; Caitana B., Cardinali M., Feliu E., Garcia I., Garcia-Blanco G., Jones L., Kraus F., Mahmoud I., Maia S., Morello E., Pérez Lapeña B., Pinter L., Porcu F., Reichborn-Kjennerud K., Ruangpan L., Rutzinger M., Vojinovic Z., 2021, "Principles guiding NBS performance and impact evaluation", in Dumitru A., Wendling L. (eds.), *Evaluating the impact of nature-based solutions*, European Commission.
8. Castaldo A.G., Mahmoud I., Morello E., 2021, "Ecosystem-Based Adaptation Approach and Adaptation Planning Support Tools: Potential Implementation for the Urban Context", in La Rosa D., Privitera R., (eds.), *Innovation in Urban and Regional Planning*, Springer, pp. 23-32.
9. Desthieux, G., Carneiro, C., Susini, A., Abdennadher, N., Boulmier, A., Dubois, A., Camponovo, R., Beni, D., Bach, M., Leverington, P., Morello, E., 2018, "Solar Cadaster of Geneva: A Decision Support System for Sustainable Energy Management", in Otjacques B., Hitzelberger P., Naumann S., Wohlgemuth V. (eds.), *From Science to Society: New Trends in Environmental Informatics*, Progress in IS, Springer, Cham. pp. 129-137.
10. Carneiro C., Gori V., Desthieux G., Balocco C., Golay F., Morello E., 2014, "Urban morphology and energy consumption: simplified tools for the estimation of energy needs and solar income at the urban and district level", in Pinto N.N., Tenedório J.A., Antunes A.P., Cladera J.R. (eds.), *Technologies in Urban and Spatial Planning: Virtual Cities and Territories*, IGI, Lisbon, pp. 173-195.
11. Carneiro C., Morello E., Desthieux G., 2009, "Assessment of solar irradiance on the urban fabric for the production of renewable energy using LIDAR data and image processing techniques", in Sester M., Bernard L., Paelke V. (eds.), *Advances in GIScience*, Lecture Notes in Geoinformation and Cartography, Springer, Berlin.
12. Carneiro C., Morello E., Ratti C., Golay F., 2008, "Solar radiation over the urban texture: LIDAR data and image processing techniques for environmental analysis at city scale", in Lee J., Zlatanova S. (eds.), *3D Geo-information Sciences*, Lecture Notes in Geoinformation and Cartography, Springer, Berlin.

#### Other book contributions [29]

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2. Fior M., Morello E., 2022, "Tra fragilità e riconquiste: le aree produttive della Città metropolitana di Milano", in Fior M., Kërçuku A., Mattioli C., Pessina G. (eds.), *Fragilità nei territori della produzione*, Collana di Studi e Ricerche del Dipartimento di Architettura e Studi Urbani, Franco Angeli, Milano, pp. 199-216.
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## Attachment A2 – PhD Faculty Board

### Description of the Faculty Board

<i>Name</i>	<i>Affiliation</i>	<i>Disciplinary Scientific Sector</i>
<i>Eugenio Morello (Coordinator)</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/A</i>
<i>Andrea Arcidiacono</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/B</i>
<i>Simonetta Armondi</i>	<i>Politecnico di Milano (Dastu)</i>	<i>GEOG-01/B</i>
<i>Alessandro Balducci</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/A</i>
<i>Paolo Beria</i>	<i>Politecnico di Milano (Dastu)</i>	<i>ECON-04/A</i>
<i>Massimo Bricocoli</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/A</i>
<i>Antonella Bruzzese</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/B</i>
<i>Grazia Concilio</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/A</i>
<i>Francesco Curci</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/A</i>
<i>Valeria Fedeli</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/A</i>
<i>Luca Gaeta</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/A</i>
<i>Fabiano Lemes de Oliveira</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/B</i>
<i>Antonio Longo</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/B</i>
<i>Ilaria Mariotti</i>	<i>Politecnico di Milano (Dastu)</i>	<i>ECON-04/A</i>
<i>Scira Menoni</i>	<i>Politecnico di Milano (Dabc)</i>	<i>CEAR-12/A</i>
<i>Stefano Moroni</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/A</i>
<i>Carolina Pacchi</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/A</i>
<i>Gabriele Pasqui</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/A</i>
<i>Paolo Pileri</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/A</i>
<i>Laura Pogliani</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/B</i>
<i>Davide Ponzini</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/A</i>
<i>Paola Pucci</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-12/B</i>
<i>Andrea Rolando</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-10/A</i>
<i>Nicola Russi</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-09/A</i>
<i>Stefania Sabatinelli</i>	<i>Politecnico di Milano (Dastu)</i>	<i>GSPS-08/A</i>
<i>Rossella Salerno</i>	<i>Politecnico di Milano (Dastu)</i>	<i>CEAR-10/A</i>

## Attachment A3 – PhD Advisory Board

<i>Name</i>	<i>Affiliation</i>
<i>Prof. Luca Bertolini</i>	<i>Universiteit van Amsterdam</i>
<i>Dr Biagio Ciuffo</i>	<i>Joint Research Centre</i>
<i>Dr Sabrina Lucatelli</i>	<i>Riabitare l'Italia</i>
<i>Dr Alessandro Maggioni</i>	<i>CCL - Confcooperative Habitat</i>
<i>Dr Marcela Brugnach</i>	<i>Ikerbasque Foundation for Science</i>