



# Ilaria Delponte

Associate professor

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## Education and training

2008

### **PhD in Spatial planning Doctorate School in “Places and Times of Town and Territory”**

PhD Thesis 'Port and infrastructures times and methods for new gravitational dynamics'

University of Brescia (with Univ. Bologna, Padova and Genoa)

2004

### **Master Degree in Building Engineering**

'Towards a Strategic Plan for the Arroscia Valley'

University of Genoa

## Academic experience

2004 - 2007

### **PhD Student**

University of Brescia

2008 - 2015

### **Research Granter**

University of Genoa

2016 - 2018

### **Assistant Professor (RTDB)**

University of Genoa

2019 - ONGOING

### **Associate Professor**

University of Genoa

2023- ONGOING

### **National Qualification as Full Professor**

## Institutional Assignments

### **Mobility Manager**

UniGe

### **Deputy Director Research Center**

Centro italiano di eccellenza sulla logistica, i trasporti e le infrastrutture – CIELI

### **Member Joint teacher-student Commission**

Scuola politecnica

### **Member of the Departmental Council**

Dipartimento di ingegneria civile, chimica e ambientale - DICCA

## Language skills

### **English**

Proficient

### **French**

Independent

## Teaching activity

- Teaching in the undergraduate and graduate courses within the Civil and Building Engineering of the University of Genoa (2005-2015) Teaching **Spatial Planning and Planning Laboratory** at the Building Engineering Bachelor (3rd year), (since 2016)
- Teaching **Sustainable Planning** at the Civil Engineering Master (2nd year), (since 2018)
- Tutor of many students for their **final degree dissertation and traineeships** (about 80)
- Member of the **Degree Committee** of the Building Engineering Course
- **International Relationships Delegate** and responsible for Erasmus Program of the Building Engineering Master Degree
- **Teacher of the ACCADEMIA della Marina Mercantile, GENOA: High Technical Training Course in Transport and Logistics** (since 2018, intermodal transport systems, waterfront port-city relationship, urban and electric mobility, cyber security, urban and port energy management)
- **Masters teacher: TRAINMOS ACTION**, second level master, Trans-European Transport Network, Pilot action 2-smart cities and intelligent ports, climate change issue, March 2013 'Sustainability & energy efficiency manager in maritime transport', 'maritime sustainability and mos', September 2015
- **Masters teacher: MOTUS-E**, Expert in electric mobility systems for the smart city, lessons onelectric mobility: regulatory framework and strategies, june 2019electric mobility: planning tools, january 2020

## Postgraduate research and teaching activity

### Supervision of PhD students, residents and post-doctoral fellows

- **Co-tutor of 3 PhD candidates**, attending the XXVII PhD Program in 'Places and Times of the City and the Territory'
- **Tutor of 6 PhD Candidates**, attending 'Logistics and Transport Program'

### PhD committees membership

- **Lecturer Member of the PhD Program** in Logistics and Transport (ay 2017/18 - XXXIV Cycle), Resp. Prof. Claudio Ferrari.
- **Lecturer Member of the PhD Program** in Sea Science, curriculum Logistics and Transport (ay 2019/ today), Resp. Prof. Claudio Ferrari.

## Research interests

### RESEARCHINTERESTS:

They have been most dedicated to the Urban Planning, developed within the cultural sphere typical of Civil Engineering

Particular attention was paid to the territorial outcomes of infrastructure and projects, to the theme of urban mobility and accessibility, as well as to energy planning at different scales. Moreover, the candidate, connecting with the local Ligurian reality, had the opportunity to deepen the issues related to the ports and the port-city relationship.

These researches had as a further starting point the opportunity for collaboration with the competent administrative bodies in the government of the territory, interested in dialogue with academic teams.

The writer has also dealt with the territorial security, the revitalization of contexts characterized by a rich historical and environmental heritage with problems of accessibility and the use of indicators in the monitoring processes for the measure of sustainability, especially with regard to traffic atmospheric pollution and the consequent impacts.

The theme of the logistics of goods in urban areas has recently been developed, which involved the candidate in evolutionary terms compared to the previously mentioned topics. The support of urban research in the development of processes, products and industrial services within the urban distribution of goods has proved particularly promising, as evidenced by the numerous projects that the writer coordinates together with colleagues from different engineering disciplines.

## Grants

2008 - 2017

### **Responsible as scientific Coordinator of contracts tenders and agreements related to Smart Urban Transport Logistics and ICTs and Sustainable Energy Planning.**

Public and private organisms at the local and national level

#### **As Principal Investigator (tenders)**

*Mobility Management Activities and Focus on the Port Front, Convention with the Municipality of Genoa - Territorial Area Mobility Manager Structure (2006-2014), Department of Construction Engineering , the Environment and the Territory (DICAT) of the University of Genoa;*

*Research and Support Booklet of the Territorial Coordination Plan concerning the development of the Integrated Project for the logistic connection of Valbormida with the Savona-Vado ports platform and reorganization of the energy sector and further studies and publications on port and logistics CIMA, Interuniversity Research Center in Environmental Monitoring, and Sustainability of infrastructures and port logistics, CRUIE Research Center in Urban Planning and Ecological Engineering of the University of Genoa (2008-2012)*

*Preparation of a strategic document on traffic conditions and support for urban-scale traffic planning and mobility activities in the Municipality of Savona (2009), CRUIE*

*Preparation of the Sustainable Energy Action Plan (SEAP), Agreement with the Environmental Hygiene Energy Department - Municipality of Genoa (2009-2010), CRUIE;*

*Preparation of the Sustainable Energy Action Plan (SEAP), Municipality of*

*Noli (SV) (2010-2011), CRUIE*

*Strategic Environmental Assessment of the Urban Plan of Mobility and Traffic of the Municipality of Savona (2010-2011), CRUIE*

*Project '+ TPL' inherent the improvement of air quality in urban areas, the enhancement of public transport, and establishment of the mobility management office - National Project financed by the Ministry of the Environment', Convention on 'scientific coordination on the activities on the quality and urban equipment sector, Municipality of Savona (2011-2015), collaboration with CRUIE, Research Center in Urban Planning and Ecological Engineering*

*Consorzio Montano Basin Council of Val Bormida (BIM), Calculation of energy needs and related emissions of carbon dioxide into the atmosphere deriving from the urban transport sector (including local transport, private and commercial vehicles and municipal fleet) and the consequent reduction forecasts for planned interventions, DITEN, Electrical, Electronics and Telecommunication Engineering and Naval Architecture Department University of Genoa (2012-2016).*

*Preparation of the monitoring report and technical-scientific support activities related to the development of the Sustainable Energy Action Plan, Agreement with the Environmental Hygiene Energy Department - Municipality*

*- "Realisation of a study dedicated to the definition of the contents of the Sustainable Urban Mobility Plan - PUMS of the Metropolitan City of Genoa, in coherence with the guidelines for the elaboration of PUMS established by the MIT Decree of 4 August 2017", with the Metropolitan City of Genoa, Strategic Planning Directorate (from 2017 to 2021), CIELI Italian Centre of Excellence on Logistics, Transport and Infrastructure, University of Genoa.*

*- "Consultancy and support activities for the definition of the General Urban Transport Plan and the verification of its feasibility", with the Municipality of Rapallo (GE), Town Planning Department (from 2019 to 2021), CIELI*

*- "Guidelines to support the administration, useful and propaedeutic for a preliminary verification of the possible technical and economic feasibility of the project of a tunnel between Portofino (Piazza della Libertà) and the locality of Paraggi (and its possible continuation)", with the Technical Department of the Municipality of Portofino (from 2020, ongoing), Department of Civil, Chemical and Environmental Engineering DICCA.*

*- Scientific support to the SECAP of the Municipality of Genoa in the framework of the Covenant of Mayors for Energy and Climate, Conv. Infrastructure Energy Recovery Company, Agenzia Regionale Ligure (2019);*

*- Scientific support for the definition of a simplified methodology for carrying out the Risk and Vulnerability Assessment (RVA) in the framework of the Covenant of Mayors for Energy and Climate initiative and testing on some pilot cases of Ligurian municipalities (2021).*

### **As Principal investigator (Agreements)**

*- Research Framework Agreement with Autostrade per l'Italia spa-ASPI (February 2022), in which the interested party is a member of the Coordination Committee. The purposes includes: Research, development and innovation activities, student training and guidance, lifelong learning, funding of PhD scholarships and/or research grants, dissemination and promotion.*

*- Research Framework Agreement with AMT spa-Azienda Mobilità e Trasporti (September 2021), in which the interested party is a member of the Coordination Committee, which is entrusted with the task of assessing, promoting, organising and monitoring initiatives of common interest*

*- Framework Research Agreement with Elettra Car Sharing spa, (September 2022), for which the undersigned is a reference person, with the task of jointly defining the lines of common action and periodically verifying their*

implementation.

2010 - ONGOING

## National and international Research projects

UE Funds

### As Principal investigator

#### **COST Action TU0602- Transport and Urban Development, “Land Management for Urban Dynamics” 2008-2012**

Invited Expert, *Working Group 1 'Land Management Regimes and Policies'*

MARAKANDA, Cross-Border Cooperation (ENPI) (2010-2014)

*Specific activities: selection of best practices and definition of guidelines regarding the logistic-urban planning structures (member of Steering Committee as Project Manager).*

#### **TRANSFORM Transformation Agenda for Low Carbon Cities, FP7 Project, Call Energy-Smart Planning, Coordinator of the Smart Urban Lab in Genova (2010-2014)**

*Coordinator of the 'Key Consideration Group on Integrated Planning',*

*identification of smart performance indicators, Contributor to the Transformation Agenda (long-term strategies of the partners), Coordinator of Smart Urban Lab.*

**“ROLE AND RELEVANCE OF CIVIL SOCIETY IN LANDSCAPE AND HERITAGE CONSERVATION. COMPARED CASE-STUDY IN THE PROVINCES OF GIRONA (SPAIN) AND GENOVA (ITALY)”, (Funded Project: “SAVINGSCAPES”, SAP - Strategic Academic Partnership – Erasmus Plus). Coordinator of the UniGe Unit, responsible for comparing activities between Costa Brava and Liguria in land management, infrastructural prevision and environment**

#### **PITEM CLIP e-TRASPORTI, Interreg Italy-France Alcotra European Program (2016-2022), to support innovation, competitiveness and sustainability of transport sector**

Responsible for CIELI, activities on interoperability and good practices, exchange and technology transfer, innovative transport services design

#### **Horizon 2020 Funded project: 'RenOnBill - Energy renovations of residential buildings with bill financing' (Grant No. 847056) (2019-2022)**

*Partners: Green Building Council ES, CREARA ES, Aldelphi DE, Epta Prime IT, Kauno Enerrija LAT, Fenia Energia ES, Bluenergie IT, Lietuvos Energeticks Institutas LAT, BPIE BE.*

**Italy-France Maritime Programme, MOBIMART PLUS Project, Contract for "Technical and scientific activities related to technical components 1, 2 and 3 "Mobility and intelligent sea-land ticketing", COLLABORATION WITH LIGURIA RICERCHE SPA**

2014 - 2016

## Research and Innovation Pole Call (2014-2016)

National Funds

### As Principal investigator

#### **Project "SMILE-Smart mobility & last MILE logistics'**

*Project on transport and logistics planning, urban environment, urban policies evaluation methods.*

*Specific activities: areas of possible application of the demonstrator, on the basis of parameters and indicators designed to identify the characteristics of adequacy to city logistics policies*

#### **Project "DIECI-Electronic Ink application for the intelligent urban**

**mobility'** *DIECI System outlined a technological / managerial solution to allow interactions in real time and the implementation of smart policies to regulate mobility (demonstrator: multifunction digital card)*

*Specific activities: planning and regulatory tools to support the city logistics activities for the definition and localization of policies of 'command and control' by the municipality.*

2018 - ONGOING

## **Responsible as scientific Coordinator of contracts tenders and agreements for mobility studies and projects**

Public and private organisms at the local and national level - IT

### **As Principal Investigator**

*Agreement with ATP - provincial transport company for innovative Demand Responsive Transport services - SNAI Italian Internal Areas Strategy Fund (2020-today), CIELI, with prof. Enrico Musso*

*Collaboration with the Municipality of Portofino, for Feasibility Guidelines to support the administration for a preliminary check of the project of the Portofino -Paraggi and its follow-up, Department of Civil Chemical and Environmental Engineering, DICCA, with proff. Riccardo Berardi and Giampiero Lombardini*

*Scientific support for the General Traffic Plan, Convention with the Municipality of Rapallo, CIELI, with prof. Silvia Siri (2019-2021)*

*Responsible for UniWeLab, Joint Laboratory with Webuild Company, for teaching and research activities on feasibility studies for infrastructure projects, CIELI, with prof. Enrico Musso Agreement with TECNE, Autostrade per l'Italia Group, activities on feasibility analysis for the improvement of buffer areas for the port logistics hub of Genoa, CIELI, with proff. Enrico Musso and Ennio Cascetta, Armando Carteni (UniNa)*

**GeTUP - Green MAAS (Mobility As A Service) for adaptive urban planning**, Regional Operational Plan (ROP) 2014-2020 of the Liguria Region, under the European Regional Development Fund (ERDF), Research contract with AMT Azienda Mobilità e Trasporti spa (Call for proposals 'Action 1.2.4. - Support for the realisation of complex projects of research and development activities for enterprises grouped in research and innovation poles" (2021 - 2023).

### **National Strategy for Inner Areas (SNAI), since 2020.**

*Responsible for the research: demand-responsive transport services in areas of low demand, in a comparative way among the different Italian I.A., with particular reference to the Ligurian cases. Framework Agreement with the Associazione Nazionale Comuni Italiani (Liguria Office), National Award of the "Municipal Doctorates" grant (of which the undersigned is the scientific director) by the Cohesion Agency IT.*

### **University Network for Sustainable Development RUS Working Group, since 2021.**

*Scientific Coordinator 'Group 4. innovation and technologies (MaaS, decarbonisation and electrification) with prof. Pierluigi Coppola. Representative of the Genoa Campus in the study of mobility management policies and in the drafting of the University's mobility plans.*

**Scientific Coordinator Joint Research and Innovation Laboratory 'UniWeLab', funded by Webuild spa** (leading multinational corporation in the construction and infrastructure sector). It brings together business representatives and



university researchers to develop scientific and technological roadmaps of common interest, also with a view to participating in competitive tenders and increasing the potential for attracting further investment. The Lab also promotes the training of young people and is a technology transfer tool for the dissemination/dissemination/publication of experiences and their valorisation. Within UniWeLab, the themes of greatest interest are those of sustainable mobility.

**Innovation Ecosystem 'RAISE-Robotics and Artificial Intelligence for Socio- economic Empowerment', in particular in Spoke 4 - SMART AND SUSTAINABLE PORTS**, Scientific Coordinator (in group) of 2 Projects on '5. Automated systems and AI tools for security and risk assessment and management' and '10. Automated systems and AI tools for the optimal management of port traffic flows'.

## Editorial activity

- **Chairman and invited speakers** in more than 80 **conferences and seminars**, at the National and International level. She took part to them with scheduled interventions in Italian, English and French languages.
- 29 of them were published as Official Proceedings. Currently reviewer of the Journal of Energy Policy, Sustainability, Energies, Journal of Cleener Production, to cite a few.
- She is member of the Editorial Board of the International Journal of Urban Dynamics
- **She is responsible of the Book series CITTÀ E TERRITORIO**", Franco Angeli Editore (Class A Publisher) (Coordinators Prof. Ilaria Delponte and Francesca Pirlone), and member of the Scientific Committee - Editorial Board, since 2018
- **She is responsible of the Book series "SUSTAINABLE URBAN AND TERRITORIAL PLANNING"** Franco Angeli Editore (Class A publisher), series directed by Annunziata Palermo and Maria Francesca Viapiana (University of Calabria), since 2021
- **Scientific Publications**  
She is author of **120** publications in National or International Review/Journals, Contribution in Monographies, Monographies, Conference Proceedings (single name or with collaborators, in English and italian)

## Assignments abroad

TEACHING:

- **Visiting Professor at WMU World Maritime University in Malmö (SVE) since 2017**, carrying out a period of study in the department coordinated by Aykut I. Ölcer. In particular, she conducted a double session of lectures at the second level Master 'Maritime Energy Management', focusing the themes on the relationship between the city and the port.

## RESEARCH:

- “Invited Expert” of the **COST Action TU0602- Transport and Urban Development, “Land Management for Urban Dynamics”** (2008-2012)
- **Visiting Researcher UNIVERSITE’ PARIS 1 – SORBONNE, CRIA - Centre de recherche sur les Réseaux, l’Industrie et l’Aménagement**, Director Prof. Gabriel Dupuy. Title of the research: “Comparison in land management and planning approaches concerning transport and urban sprawl” (2010)
- **Visiting Researcher UNIVERSITE’ PARIS 1 – SORBONNE, ENeC (Laboratoire Nature Espace et Culture, CNRS Centre national de la recherche scientifique**, Director Prof. Louis Dupont. Title of the research: “Intercommunalite et Metropolitanisation en Italie, en comparaison avec l’experience française” (2017)

## Other professional activities

- Member of the Società Italiana degli Urbanisti (SIU), since 2005
- Member of the Associazione Italiana Ingegneria dei Trasporti (AIIT), since 2021