



Barbara E. A. Piga

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Home Address

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Order of Architects, Planners,
Landscape Architects and
Conservators (Milan):
from 2006 – ID 17007

An Architect by education, Barbara E.A. Piga is [Assistant Professor](#) at the *Politecnico di Milano (POLIMI)*, where she is also research scientist and coordinator of the [Laboratorio di Simulazione Urbana Fausto Curti - labsimurb \(POLIMI - Department of Architecture and Urban Studies\)](#) since its foundation in 2007. At *labsimurb* she is project leader and responsible for the experiential simulation and multi-sensory design research, and she coordinates the participation to research calls and the management of funds, as well as national and international networking, and numerous national and international seminars and conferences. She is the department coordinator of the European H2020 Eit Digital project [AR4CUP: Augmented Reality for Collaborative Urban Planning](#) (2019), where she is responsible for a novel co-design methodology through Augmented Reality. She was part of the H2020 Lighthouse project [Sharing Cities](#) (2016-17) for the co-design methodology and activities for innovative urban services. At the national level she was part of the [Città Studi Cambia](#) (2017) and [Città Studi Campus Sostenibile](#) (2011-2016) and the [Garibaldi-Repubblica](#) (2007-2010) research projects. She is instructor in POLIMI courses and design studios on the topic of simulation and representation for urban design ([Architectural and Urban Simulation](#)) since 2011. She was invited as Foreign Researcher at [CRENAU - UMR 1563 AAU](#), Nantes - France (2014). She is part of the Scientific Committee of the American and European [Design Communication Association \(DCA\)](#) (since 2014), an international society of academics and professionals of the graphic\design fields. She is member of the Board and the Scientific Committee of the [European Architectural Envisioning Association \(EAEA\)](#) (since 2011), an international association focused on endoscopy and environmental simulation. She is member of the Editorial Committee of the [International Journal of Sensory Environment, Architecture and Urban Space](#) (since 2013). She was part of the [International Ambiances Network](#) steering committee (2015-2017), an international research association working on urban ambiances with an interdisciplinary perspective. She was member of the Board of the five years' inter-university POLIMI-UNIMI project [Città Studi Campus Sostenibile](#) since its launch (2011 – 2016). Her research interest is focused on the role of representation as an aid for anticipating the human\environment relationship (namely, environmental urban design and simulation) for urban design; she investigates the link between simulation and multi-sensory urban design in order to anticipate people reactions to future environments, and thus for supporting the urban design development from conception to evaluation and presentation. She investigates and proposes innovative forms of simulation, such as multi-sensory immersive environments, related to Mixed Reality, Augmented Reality (also Augmented Maquette) and Virtual Reality. She fosters a multi-scalar and interdisciplinary approach. She holds a Ph.D. in Urban Planning from POLIMI (2010).

EDUCATION

2010 (Feb.) | POLIMI | DASTU | Milano, IT

Ph.D. with honors. Dipartimento di Architettura e Pianificazione (DiAP) – Pianificazione Urbana, Territoriale e Ambientale (PUTeA) - XXI ciclo. Thesis title: *Visual Simulation for Urban Planning. The perceptual point of view in the comprehension of urban transformation projects*. Supervisor: V.Erba and F.Curti.

2004 (Dec) | POLIMI | Faculty of Architecture | Milano, IT

MSc in Architecture (98/100). Thesis title: 'Il piano dei Servizi del Comune di Ornago'. Supervisor: V.Erba . Co-supervisor: A.Arcidiacono, L.Pogliani

AWARDS

(2017-2020) Winner of the ICAR-17 *Assistant Professor* position at POLIMI

(2016-2017) Winner of *H2020 research collaboration* "Co-Design and Envisioning" at DASTU – POLIMI, within the *Sharing Cities* European Project (Grant Agreement n.691885).

(2011 – 2017) Winner of the MSc *Architectural and Urban Simulation* teaching position at POLIMI

(2011 - 2017) Winner of 6 one-year *research fellowship* positions at DASTU (ex – DiAP) - POLIMI.

(2010 - 2011) Winner of 1 one-year *research fellowship* position at DPA - POLIMI.

(2008) Winner of 1 one-year *research fellowship* by Regione Lombardia 'Attivazione di un ambito Stage/Project Work in discipline tecnico-scientifiche per neolaureati, dottori di ricerca e dottorandi di ricerca' for the research project: *La simulazione dinamica come strumento di valutazione dei progetti di trasformazione urbana [Dynamic simulation as an evaluation tool of urban transformation design project]*

(2007) Winner of 1 three-months *tutorship fellowship* position of 'Bando di Tutorato MIUR' (Ph.D.)

(2006) Winner of the *Ph.D. candidate* position at Politecnico di Milano (DASTU – ex DiAP).

(2005) Selected within the *best MSc thesis* of the academic year 2003-04.

RESEARCH EXPERIENCE

2007 – ongoing | POLIMI | DASTU | LABSIMURB | Milano, IT

www.labsimurb.polimi.it

Scientific Coordinator, Projects Leader, Research Fellow and Tutor from the labsimurb foundation in 2007 by Fausto Curti (POLIMI) and Peter Bosselmann (UC Berkeley). Research focuses on experiential simulation for environmental urban design and projects evaluation, with a focus on interactive and dynamic simulation tools for supporting the urban design process and the decision-making one.

2019 – ongoing | POLIMI | DASTU | LABSIMURB | Milano, IT

H2020 Eit Digital EUROPEAN Project "AR4CUP: Augmented Reality for Collaborative Urban Planning"

www.labsimurb.polimi.it/research/ar4cup

Scientific Coordinator of the DASTU team. The project aims at designing and developing the AR4CUP Augmented Reality app for an innovative co-design solution. Contributed to the preparation of the project proposal in 2018. Budget managed: 153.750 €; Total Budget: 529.271 €

2016 - 2017 | POLIMI | DASTU | LABSIMURB | Milano, IT

H2020 LightHouse EUROPEAN Project "Sharing Cities" (Grant Agreement n.691885) | www.sharingcities.eu

Collaboration to the co-design activities of the Sharing Cities EU project (WP2 – DASTU). In particular: user research activities, co-design methodology development, co-design toolkit, workshop with citizens and stakeholders, representation and communication of the co-design outcomes.

2014 – 2017 | CNRS International Research Group (GDRI) 'Translating Ambiances'

www.ambiances.net/seminars/gdri-translating-ambiances.html

Member of the International Research Group project. This funded project fits into the larger framework of the International *Ambiances Network* (www.ambiances.net). Launched in 2008 this network coordinates and

encourages, at an international level, work and events focusing on architectural and urban ambiances with an interdisciplinary approach. The GDRI was funded by the French Ministry of Culture (2014). The final research seminar in June 2017 will be organized and scientifically coordinated by labsimurb (B. Piga & E. Morello).

2011 – 2016 | POLIMI | ‘Città Studi Campus Sostenibile’ (CSCS) | LABSIMURB | Milano, IT
www.campus-sostenibile.POLIMI.it

Research fellow within the inter-university (POLIMI – UNIMI) project ‘Città Studi Campus Sostenibile’. Research title: ‘Perceptual simulations to address urban transformations: an experiential approach for the definition of design guidelines’. Main research focus: experiential simulation for urban design within a bottom-up and interdisciplinary approach. Main Tasks: development of CSCS strategies (vision and focus areas for masterplan proposals).

26.11.2014 – 17.12.2014 | Ecole Centrale Nantes | CERMA laboratory UMR 1563 | Nantes, FR
(now: CREANU - Centre de Recherche Nantais Architectures Urbanités Ambiances, Architectures, Urbanités - Unité mixte de recherche 1563 CNRS-MCC-ECN)
www.crenau.archi.fr

Invited Researcher and lecturer (ID foreign researcher in France: 65962).

Research topic: Perceptual simulations to address urban transformations: an experiential approach for the definition of design guidelines. Investigation on methods and tools for enhancing a user centered approach in urban design and planning practice.

2011 – 2013 | POLIMI | DASTU | LABSIMURB | Milano, IT
smartplanPOLIMI.wordpress.com

Research team member (research ID: 5x1000 Junior). Research title: *Open innovation in urban discovery and planning for the Città Studi Campus Sostenibile project: from master plan as alignment environment to urban digital footprints*. Research focuses on open innovation in urban planning, in particular on the topic of interactive simulation for urban design and public participation.

2010 – 2011 | POLIMI | Dipartimento di Progettazione dell’Architettura (DPA) | LABSIMURB | Milano, IT

Research Fellow (research ID: 5x1000 Junior). Research title: ‘New tools to analyze and manage the linear cultural landscape. Preservation and planning policies’. Research focuses on new tools to analyze and manage the linear cultural landscape, in particular on the use of eye-tracking for urban design and planning purposes.

LEADERSHIP ACTIVITIES

EUROPEAN Project Proposal Coordinator

(2016 – *not funded*) ERA-NET SMART URBAN FUTURES (ENSUF). Proposal: “*Co-Futuring: Integrating ICT & Participatory Design towards Shared Urban Transformations*” (Project number: 6944966). Coordinator and collaboration to the development of the research concept and development and to the writing of project proposal (POLIMI – DASTU – labsimurb \ coordinator). The research focused on the implementation of renewed community planning procedures by integrating ICT into immersive and advanced simulation (scenarios) and e-participation.

(2015 – *not funded*) Interreg-MED - Priority Axis 1 - Smart Med: promoting Mediterranean innovation capacities to develop smart and sustainable growth (Specific Objective 1.1: To increase transnational activity of innovative clusters and networks of key sectors of the MED area). Proposal: “*UniCities: Mediterranean Universities and Cities Alliance towards energy transition and climate change resilience*” (Proposal ID: 720). Collaboration to the development of the research concept and development and to the writing of project proposal (POLIMI – DASTU – labsimurb \ coordinator). Research proposal based on Campuses innovative districts for a quad-helix collaboration at the local and transnational Mediterranean level. University Campuses innovation districts.

(2014 - 2015 – *not funded*) HORIZON 2020 – ICT 19 - Research & Innovation Actions (Technologies for creative industries, social media and convergence: Research in new technologies and tools to support creative industries in the creative process from idea conception to production). Proposal: “*C’on’Create: Collaborative creation of city experiences through a phygital approach*” (proposal ID: 688575). Coordinator and collaboration to the development of the research concept and development and to the writing of project proposal (POLIMI –

DAStU – labsimurb \ coordinator). Research proposal based on ICT for co-creative urban design through outdoor Augmented Reality (the research topic is the one I lead at labsimurb).

EUROPEAN Project Proposal Partner

(2018 – *funded*) EIT DIGITAL. Proposal: “AR4CUP: Augmented Reality for Collaborative Urban Planning”. Coordinator and collaboration to the development of the research concept and development and to the writing of project proposal (POLIMI – DAStU – labsimurb \ coordinator). The project is based on the use of experiential simulation through Augmented Reality (AR) for anticipating and pre-assessing urban design projects.

(2015 – *first phase approved, stopped in the second phase*) Interreg-MED - Priority Axis 2 - Fostering low carbon strategies and energy efficiency in specific MED territories: cities, islands and remote areas (Specific objective 2.3: To increase capacity to use existing low carbon transport systems and multimodal connections among them). Proposal: “UrbanNODES: Encouraging intermodal connections through a new urban grammar legibility” (Proposal ID: 931) Collaboration to the development of the research concept and to the writing of the project proposal with Cynthia Echave (Urban Ecology Agency of Barcelona - coordinator). Research proposal on intermodal urban nodes for improving legibility and promote a novel urban grammar based on superblocks and people based approach (mainly visual perception).

NATIONAL Research

(2011- 2016 – *funded*) POLIMI fellowship: *Simulation for urban design: designing the sustainable university Leonardo Campus* (POLIMI-UNIMI ‘Città Studi Campus Sostenibile’ project). The research investigates novel master planning modalities for guiding urban transformations at different scales and using different representation media.

(2010 – 2011 – *funded*) POLIMI fellowship from 5x1000 tax revenues: “Eye-tracking for urban design and planning purposes: the Gorgonzola case study”. The research investigates the use of eye-tracking technologies for analyzing the user perception from roads.

(2007-2010 - *labsimurb research project*) DIAP (now: DAStU): *Simulation for decision-making: the Garibaldi-Repubblica case study*. The research investigates the use of different typologies of simulation for the evaluation of the cumulative impact of urban transformation projects.

International Association, Board and Coordination

(2007- ongoing) Coordinator and Scientist of the research laboratory *Laboratorio di Simulazione Urbana ‘Fausto Curti’* at DAStU - POLIMI. Responsible and project leader for the experiential simulation and multi-sensory urban design research, and the management of research funds. Organization and Scientific coordinator of the national and international seminars and conferences held by the *Laboratorio di Simulazione Urbana ‘Fausto Curti’* at DAStU (ex DiAP), POLIMI. | www.labsimurb.POLIMI.it

(2015 - ongoing) Member of the Steering Committee of the *Ambiances International Network*. Research focuses on architectural and urban ambiances. Research member since 2013 | www.ambiances.net

(2017) Coordinator, Scientific Committee and Organization of the International Competition *Envisioning the City of the Future: Making the Invisible Visible*. Participants are asked to imagine and design possible scenarios of the city of the future | www.eko.polimi.it/env_2017

(2009 - ongoing) Member of the Steering Committee of the *European Architectural Envisioning Association* (EAEA) | <http://eaeenet.wix.com/eaea> - www.facebook.com/EAEA.group

(2010- ongoing) Supervisor and co-supervisor of several M.Sc. theses in Architecture and Urban Planning at POLIMI. Collaboration to the supervision of Ph.D. Thesis doing the doctoral international internship at *labsimurb*.

(2011 - 2016) Member of the Board and the Scientific Committee of the POLIMI and UNIMI inter-university project *Città Studi Campus Sostenibile* | www.campus-sostenibile.POLIMI.it

(2013, November) Member of the jury of the design competition within the *Annual Festival of Innovative Technologies in Architecture in Construction* - GREEN PROJECT 2013 (Moscow) | greenproekt.com/program/piga

(2012 - 2013) Person in charge, with E. Morello, of the *brief and the strategic vision* of the design contest for the POLIMI students' competition 'Redevelopment of the open spaces of the Campus Bonardi', for the inter-university project *Città Studi Campus Sostenibile* | call: www.campus-sostenibile.polimi.it/web/guest/bando | multimedia design guidelines: www.labsimurb.polimi.it/tour/guidelines/trifoglio/LineeGuida.html | virtual exhibition: www.campus-sostenibile.polimi.it/web/guest/mostra

Editorial Committee

(2014 - ongoing) Member of the *Editorial Committee* of the *Journal of Creative Sustainable Architecture & Built Environment* (CSABE) | www.sersc.org/journals/CSABE

(2013 - ongoing) Member of the *Editorial Committee* of the *International Journal of Sensory Environment, Architecture and Urban Space* | <http://ambiances.revues.org>

Main recent Scientific Committee & Organization of International Congress, Conferences and Seminars

(2018) *Organizing Committee* of the XV Congress of Unione Italiana per il Disegno - UID. 13-15.09.2018 Milan (Italy) Politecnico di Milano | <http://www.unioneitalianadisegno.it/convegni/2018/en/comitati-eng/>

(2018) *Organizing Board* of the International Conference on Geometry and Graphics Conference (ICGG). 3-7.8.2018 Milan (Italy) Politecnico di Milano | http://www.icgg2018.polimi.it/?page_id=133

(2018) *Scientific Committee* of the Sharing Cities International Symposium "Sharing Cities Shaping Cities". 5-6.3.2018 Milan (Italy) Politecnico di Milano | <http://www.sharingcities-shapingcities.polimi.it/>

(2015) *Scientific Committee* of the international conference 3rd Ambiances International Congress. 21-24.09.2016 Volos (Greece) Polytechnic School of the University of Thessaly | <http://ambiances2016.arch.uth.gr/en/3rd-congress/scientific-committee>

(2014 - ongoing) Member of the *Scientific Committee* of the American and European *Design Communication Association (DCA)* | <https://designcommunicationassociation.wordpress.com>

(2011 - ongoing) *Scientific Committee* of the biannual conferences of the European Architectural Envisioning Association (EAEA) | <http://eaeonet.wix.com/eaea> - www.facebook.com/EAEA.group

(2007 - ongoing) *Scientific Committee and Organization* of several National and International Seminars, Conference and Workshops of *labsimurb* (www.labsimurb.polimi.it/PUBLICATIONS). Among the others:

27.02.2017 – 31.03.2017 | POLIMI | www.ambiances.net/workshops/Mob3

International Research Seminar: *Sharing Cities, Ambient Commons and Urban Futures* \ International Workshop: *Mobiance 3 - Exploring and Envisioning Future Urban Scenarios Related to the Sharing Approach*. Main universities involved: POLIMI, ECN, ENSA, Audencia

04-06.07.2016 | ERASMUS+ AA 2015/2016 | CREANU Nantes – FR | www.labsimurb.polimi.it/conference/ERASMUS_Nantes_PROGRAM.pdf

Organization and coordination of the International Seminar for Erasmus Teaching Mobility POLIMI – DASTU -labsimurb and ECN - UMR 1563 AAU / CREANU.

23-24.11.2015 | POLIMI | www.dastu.polimi.it/visualperception

International Research Seminar: *Quality and Quantity of Visual Perception. Recent ICT Improvements for Tridimensional Visibility Analysis* | Internal Research Seminar: *Brainstorming on visibility studies* | International Workshop: *The CREANU visibility tool in practice*. Main universities involved: POLIMI, CREANU (ECN\ENSA), EPFL, SUPSI

09-11.03.2015 | POLIMI | www.dastu.polimi.it/Walkscape

International Research Seminars: *The role of ICT tools for urban design* and *Walk-scape: Ongoing research on Augmented Reality solutions for the built environment* | International Workshop: *Walk-shop: Discovering and representing the sensory dimension of urban space*. Main universities involved: POLIMI, ECN, University of Sheffield.

22-23.05.2014 | POLIMI | www.dastu.polimi.it/Aedas

International Research Seminar and Workshop *Computational Design and Research: current research at Aedas R&D*. With C. Derix & A. Izaki

25-28.09.2013 | POLIMI | www.eaea11-2013.POLIMI.it

Conference and Publication - International Conference *EAEA11 2013. Envisioning Architecture: Design, Evaluation, Communication*. In collaboration with E. Morello I had the leadership on all the scientific and organizational issues (definition of the conference themes and topics, double blind review, conference presentation and session chairing, communication, and all the organizational tasks). The conference had three main tracks: 1. Visualizing Sustainability: making the invisible visible; 2. Experiential Simulation: the sensorial perception of the built environment; 3. Conceptual Representation: exploring the layout of the built environment. The general objective was to investigate the role of visualization as a tool for conception, verification, evaluation, and communication of architecture and urban space. The conference had a worldwide attendance, with more than 40 countries represented. The acceptance rate was 1/3 (177 incoming abstracts, 56 papers and 18 posters presented and published). The members of the scientific committee were 21, and there was an official presentation of the international links to EAEA and DCA USA. We had three relevant keynote speakers: Peter Bosselmann (Berkeley University of California), Eckart Lange (University of Sheffield), and Jack Breen (TU Delft). During the conference, we were invited to be the editors of a special issue on experiential simulation of the International Journal of sensory environment, architecture and Urban Space.

02.12.2013 | POLIMI | www.labsimurb.polimi.it/PUBLICATIONS/OrganizedConfereces

International Seminar *Research on Understanding Human Behavior in Public Space*. Main universities involved: POLIMI, Osaka Institute of Technology, UniMiB

17-18.06.2010 | POLIMI | www.dastu.polimi.it/EnvSimulation.pdf

International Seminar *Exploring Urban Change through Visual and Environmental Simulation*. Main institutions involved: POLIMI, University of Sheffield, Brandenburg University of Technology, TUDelft, University of Glasgow, Agencia d'Ecologia Urbana de Barcelona, Glasgow City Council

27.06.2007 | POLIMI | www.labsimurb.polimi.it/PUBLICATIONS/OrganizedConfereces

International Seminar *Laboratorio di Simulazione Urbana Work in Progress*. Main universities involved: POLIMI, University of California Berkeley

Scientific Review Committee \ Conference Paper and Journal Articles

(2018 - ongoing) Environmental Modelling and Software - Journal

(2018 - ongoing) Architecture, City and Environment - Journal (ACE)

(2018 - ongoing) Education and Research in Computer Aided Architectural Design in Europe (eCAADe) - Conference

(2018) Sharing Cities Symposium | <http://www.sharingcities-shapingcities.polimi.it/>

(2014 - ongoing) Design Communication Association - Conference (DCA)

(2014 - ongoing) Journal of Creative Sustainable Architecture & Built Environment - Journal (CSABE)

(2013 - ongoing) International Journal of Sensory Environment, Architecture and Urban Space - Journal

(2011 - ongoing) European Architectural Envisioning Association (EAEA) - Conference

(2016 - ongoing) Ambiances International Congress - Congress

(2014 - ongoing) International Conference on Geometry and Graphics - Conference (ICGG)

TEACHING EXPERIENCE

POLIMI | Scuola di Architettura, Urbanistica, Ingegneria delle Costruzioni (AUIC)

(2011 - ongoing) *Adjunct \ Assistant professor* (ICAR\21-17). POLIMI M.Sc. course for Architecture and Urban Planning: *Architectural and Urban Simulation*. Integrated Course with prof. Rossella Salerno. Main focus: experiential simulation for urban design. Ex cathedra lectures and supervision of students with design reviews.

(2015/16) *Adjunct professor* (ICAR\21). POLIMI M.Sc. course in Urban Planning: *Urban Ethnography*. Integrated Course with prof. Paola Briata. Main focus: representation for ethnographical research (*Urban Survey and Representation*). Ex cathedra lectures and supervision of students with design reviews.

(2010 – ongoing) BSc and MSc *thesis supervisor and co-supervisor* (Architecture and Urban Planning and Policy Design). Some thesis are in collaboration with *Università degli Studi di Milano (IT) and École Centrale Nantes (FR)*.

(2007 – ongoing) B.Sc., M.Sc., Ph.D. *national and international internship tutorship at labsimurb*

(2007, Spring Semester – ongoing) MSc program in Urban Planning and Policy Design | *Tutorship* (ICAR\21) for *Urban Simulation and Project Assessment*, within *Real Estate Market and Project Impact Assessment*, prof. A. Arcidiacono. Supervision of students with design reviews.

(2006 – ongoing) B.Sc. program in Architecture | *Tutorship* (ICAR\21) for *Urban Planning Studio*, prof. A. Arcidiacono, Supervision of students with design reviews.

ERASMUS+ TEACHING STAFF MOBILITY

(04-06.07.2016 | ERASMUS+ AA 2015/2016 | CREANU | Nantes - FR) Organization and coordination of the International Seminar for Erasmus Teaching Mobility: the goal was to reinforce the collaboration and exchange of students and staff between POLIMI – DASTU - LABSIMURB and ECN: UMR 1563 AAU / CREANU.
www.labsimurb.polimi.it/conference/ERASMUS_Nantes_PROGRAM.pdf

(07-09. 10.2015 | ENSA | Nantes - FR) *International Workshop Tutorship : Mobiance 2 - Capteurs-senseurs en interaction dans la ville*

PRESENTATIONS and LECTURES

Invited Lectures

8-9.3.2018 | Universitat Politècnica de Catalunya | Barcelona – ES | “Co-designing and Envisioning the City of the Future”

28.03.2017 | Milan Design Week 2017 / SBODIO32 WS | Milano – IT | www.sbodio32.com/composite-bodies
“*Designing the Multi-Sensory Experience*”

19-20.09.2016 | Volos – GR | 3° Seminar of the GDRI Funded Program *Translating Ambiances* |
www.ambiances.net/gdri-volos2016.html
“*Translating ambiances in design: representation and communication, environmental and experiential simulation*”

04-06.07.2016 | CREANU | Nantes - FR | International Seminar AAU-POLIMI on *Ambiances & Higher Education*
“*Level of Details of Augmented Physical Models for Urban Design and Planning*”

04.12.2015 | Università di Camerino | Ascoli Piceno – IT | FAR 2012. International Seminar *Quality of Landscape and Quality of Life in the sustainable Adriatic City (Qland-Qlife)* <http://d7.unicam.it/sad/node/5012>
“*Environmental and Experiential Simulation to Design and Evaluate Urban Transformation*”

23-24.11.2015 | POLIMI | Milano – IT | International Research Seminar *Quality and quantity of visual perception: recent ICT improvements for tridimensional visibility analysis* www.dastu.polimi.it/Visibility
“*Qualitative Visibility Analysis with Panoramic Photos and Videos*”

07-09.10.2015 | Ecole Nationale Supérieure d'Architecture de Nantes (ENSA) | Nantes – FR | Mobiance 2 WS :
Capteurs-senseurs en interaction dans la ville | www.ambiances.net/Mobiance2
“*The phigital future of cities: a possible perspective*”

27-29.04.2015 | Université du Québec à Montréal (UQAM) | 2° Seminar of the GDRI Funded Program
Translating Ambiances | Montreal – Québec – Canada | www.ambiances.net/gdri-montreal2015.html
“*Interpreting and communicating the atmosphere of places: outcomes from a teaching experience in architecture*”

13.11.2014 | UNIMI | *BookCity: Giornate della sostenibilità. L'arte della divulgazione: ricerca scientifica, cultura letteraria e comunicazione d'impresa. Non solo Scienza.* | Milano – IT | www.unimi.it/Arte_divulgazione
“*Il progetto CSCS: Città Studi Campus Sostenibile*”

18.09.2014 | POLIMI | European Mobility Week 2014: le università e la mobilità sostenibile | Milan – IT | www.campus-sostenibile.unimi.it/mobility_week_2014

“Ripensiamo via Celoria! Comparazione di scenari ed esiti ambientali per una riqualificazione condivisa”

28.11.2014 | Ecole Centrale de Nantes (ECN) - École Nationale Supérieure d'Architecture de Nantes (ENSA) | International Lecture | Nantes - FR |

“Managing complexity through prototypes of future realities: perceptual simulation for designing and evaluating urban transformation”

15.09.2014 | International Summer School: *The Complexity of Crowd Dynamics: analysis, modeling, simulation* | Como - IT | www.csai.disco.unimib.it/CSAI/Crowd2014

“Perceptual Urban Simulations: the relevance of introducing dynamic features”

09-12.09.2014 | CRENAU | 1° Seminar of the GDRI Funded Program *Translating Ambiances* | Nantes – IT | www.ambiances.net/gdri-nantes2014.html

“Labsimurb and The Ambiances Research Approach”

26.11.2013 | [Green Project Festival](#) | Moscow - Russia

“Città Studi Sustainable Campus”

13-14.06.2013 | CERMA | Joint international seminar CERMA – labsimurb: *Simulation of Ambient Environment, Virtual Reality and Urban Design* | Nantes – FR | www.ambiances.net/nantes-2013-simulation

“Simulation for evaluation: the transformation of the Garibaldi - Repubblica district in Milan”

08-09.04.2013 | POLIMI | International Seminar: *Public spaces and services in changing urban spaces* | Milan - IT | www.dastu.polimi.it/PublicSpace

“The Garibaldi-Repubblica Project in Milan: The Labsimurb Simulation Research”

12.10.2012 | POLIMI | Seminar: *Giornate della Sostenibilità* | Milan – IT | www.campus-sostenibile.polimi.it/GgSost_2012

“Il progetto CSCS: aspetti progettuali ed operativi”

15.03.2012 | POLIMI | Seminar: *Linear landscape: tools to analyze and manage the linear landscape. Preservation and planning policies* | Milan - IT

“The perceived landscape”

17.03.2010 | Moholy-Nagy University of Art and Design (MOME) | International Program Course Week | Budapest - HU

“Urban Simulation”

Recent Participation to International Conferences with oral presentation and/or paper or poster:

(2018, August) [International Conference on Geometry and Graphics](#) | Milan, IT | [full paper, oral presentation](#)

(2018, July) [UID 2018: Rappresentazione Materiale\Immateriale - Drawing as \(Intangible\) Representation](#) | [full paper](#)

(2016, September) [International Congress: Ambiances, tomorrow](#) | Volos – GR | [full paper](#)

(2015, September) [EAEA 2015: Envisioning Architecture: Image, Perception and Communication of Heritage](#), Lodz - PL | [full paper, oral presentation](#)

(2014, October) [Design Communication Conference 2014: Design & Graphic Palimpsest: Dialogue, Discourse, Discussion](#) | Atlanta, Georgia –USA | [full paper](#)

(2013, September) [EAEA 2013: Envisioning Architecture](#) | Milan - IT | [full paper, oral presentation](#)

(2012, July) [AESOP 2012](#) | Ankara, Turkey | [full paper, oral presentation](#)

(2011, September) [eCAADe 2011: Respecting Fragile Places](#) | Ljubljana, Slovenia | [full paper, oral presentation](#)

(2011, September) [EAEA 2011: Envisioning Architecture](#) | Delft, Netherlands | [full paper, oral presentation](#)

PUBLICATIONS

Available at: www.researchgate.net/profile/barbara_piga/contributions

BOOK and JOURNAL ARTICLES

- 1) Piga, B. E. A. (2018). The Combined use of Environmental and Experiential Simulation to Design and Evaluate Urban Transformations. In: Roberta Cocci Grifoni, Rosalba D'Onofrio, Massimo Sargolini (Eds.), *Quality of Life in Urban Landscapes: In Search of a Decision Support System*. Springer
- 2) Piga, B. E. A., & Salerno, R. (Eds.). (2017). *Urban Design and Representation. A Multidisciplinary and Multisensory Approach*. Switzerland: Springer International Publishing.
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PROFESSIONAL EXPERIENCE

Urban Planning, design, simulation and consultancy

(2018) Urban analysis and scenario for 'Città Studi Cambia' (Milano – IT): technical and scientific support for the definition of new urban scenarios for the urban district of "Città Studi" neighborhood | www.labsimurb.polimi.it/research/citta-studi-2-0

(2014 – 2016) Masterplan and design project for 'Re-thinking of via Celoria' (Milano – IT), within the 'Città Studi Campus Sostenibile' project | <http://goo.gl/RLPFIE>

(2015) Strategic plan and brief for the design competition for the 'Redevelopment of the open spaces of the Campus Bonardi' – preliminary urban design project

(2013) Masterplan 'Incarico per lo Studio unitario e la progettazione di un percorso di connessione tra le stazioni di Milano Bovisa Politecnico (FERROVIENORD) – Milano Villapizzone (RFI)' | FERROVIENORD

(2012 – 2014) Collaboration for the urban re-design of piazza Leonardo da Vinci (Milano – IT), within the 'Città Studi Campus Sostenibile' project | <http://goo.gl/Xd5SWk>

(2012) Strategic plan and brief for the design competition for the 'Redevelopment of the open spaces of the Campus Bonardi' ideas competition | www.campus-sostenibile.POLIMI.it/web/guest/bando

(2011) Strategic Vision and structure of the inter-university project (POLIMI – UNIMI) 'Città Studi Campus Sostenibile' | <https://youtu.be/nSXwqy1R5xM>

(2011) Collaboration with labsimurb and arch. Alessandro Trevisan (Piani e Progetti) | Urban simulation for supporting the urban transformation of Settala municipality

(2007) Collaboration for the *City Plan* of Sesto San Giovanni, Italy | 'Linee guida per il Piano delle Regole di Sesto San Giovanni' | arch. Laura Pogliani

Collaboration with Architecture and Urban Planning Office

(2005 – 2007) Collaboration with the *Urban Planning Office* 'Studio Plateia' (arch. L.Pogliani, arch. A.Arcidiacono, arch. G.Calmanti):

(2006) Collaboration for the *Strategic Plan* for the Consorzio Area Alto Milanese – CAAM | 'Ricognizione e valutazione delle potenzialità di sviluppo strategico dell'area intercomunale del CAAM' | Studio Plateia (arch. L.Pogliani, arch. A.Arcidiacono, arch. G.Calmanti)

(2006) Collaboration for the *Strategic Plan* of Scandicci, Italy | 'Piano Strategico e della Mobilità di Scandicci' | Studio Plateia

(2006) collaboration for the updating of the RSA (Relazione sullo Stato dell'Ambiente) for the Comune di Milano | Studio Plateia

(2005 – 2007) Collaboration with the *Architecture and Urban Planning Office* 'Piani e Progetti' (arch. Paolo Maffioletti, arch. Alessandro Trevisan)

(2005) 'richiesta di Verifica per l'esclusione dalla procedura di VIA' e per il 'rapporto di impatto: compatibilità urbanistico-territoriale' per "Integrazione al PRU quartiere ERP - ex Incis' a Pieve Emanuele (Mi) | Studio Plateia and Piani e Progetti

(2006) Collaboration with *Architecture Offices*

(2006) Collaboration for residential design projects in Milan | arch. Luca Mangoni

(2006) Collaboration for the architectural design competition of the residential building in via Moscova, Milan, Italy (invited architect by Pirelli RE) | arch. Luca Mangoni

(2002 – 2003) Collaboration for interior design of the lobby of the Canon Italia main office, San Donato (Mi), Italy | ARX - arch. Fulgenzio Maffezzini

(2002 – 2003) Collaboration for residential interior design projects in Milan | ARX - arch. Fulgenzio Maffezzini

OTHER SKILLS

(12-19-30 Nov 2015) Certificated training courses | Politecnico di Milano (MIP) | 'Project Management'

(29-30 Oct 2014) | Certificated Training courses | Tobii AB (Stockholm, SE) | 'Eye Tracking Masterclass for Behavioral Research 2014'

(2009, since) *EU licenced architect* | Registration Member n. 17007 of 'Ordine degli Architetti, Pianificatori, Paesaggisti e Conservatori della Provincia di Milano'.

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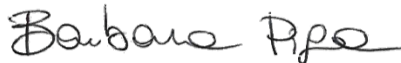
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Autorizzo il trattamento dei dati personali ai sensi del D.Lgs. del 30 giugno 2003, n. 196 (Codice in materia di protezione dei dati personali) e del GDPR 679/2016 (Regolamento Europeo sulla Privacy).