

CURRICULUM VITAE ET STUDIORUM

Prof. PhD Daniele Villa

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Politecnico di Milano, Department of Architecture and Urban Studies, DASTU
via Bonardi 9, Milano – Italy

ABSTRACT

Daniele Villa (1972), **PhD in Urban Planning** and **MA in Architecture** at Politecnico di Milano is **Associate Professor at School of Architecture Urban Planning and Construction Engineering**, Department of Architecture and Urban Studies (DASTU), Politecnico di Milano, teaching “**Fundamentals of Representation**”, “**Representation and Urban Planning**” at the BSc in Architecture and Urban Planning, and “**Introduction to Visual Thinking**” at the Master of Urban Planning and Policy Design. During the academic 2022-23 year, he taught: “**Fundamentals of Representation**” at **Xi’an Jiaotong – Politecnico di Milano Joint School of Design and Innovation Centre - BSc in Architecture**.

He has fifteen years of academic research experience and his main research interests concern the intertwined themes of visual culture and architectural/urban representation with particular regard to digital innovation in the landscape, heritage and built environments knowledge making.

He is a member of the **research laboratory CLIP.LAB (Cultural Landscape Information and Planning)** is dedicated to the study of cultural landscapes with a specific focus on the role of bottom-up practices in heritage-related territorial planning. He is also a member of the international academic network **IMG-Network** and part of the editorial board of the academic journal “**TERRITORIO**” - Scopus indexed.

Since 2021, he has been a **member of the doctoral board in Preservation of the Architectural Heritage at the Politecnico di Milano PhD School**.

In latest years, he has managed **two national research projects funded by UNESCO** institutions and is now a member of the academic national research group on smart city, architectural augmented-reality, and 5G technologies experimentation.

Between 2020 and 2022, he was a member of the research projects: “**BASE5G - Broadband InterfAces and services for Smart Enviroments enabled by 5G technologies**” - Smart City and Smart Learning WP (2020-2022) and of the national research project: “**Ethno-Graphs. The (textual, graphical, photographic) transcription of field observation as a specific practice of Architectural Ethnography**” (2021-2022). He recently edited, with Cecilia Bolognesi, the Springer book: “**From Building Information Modelling to Mixed Reality**”, Springer Tracts in Civil Engineering.

As of July 2024, he is a board member of the Joint Lab: “**Sustainable Conservation and Regeneration of Urban and Rural Heritage**” co-raised by Xi’an Jiaotong University in China and Politecnico di Milano.

ACADEMIC POSITION

from 2020

Associate Professor

Politecnico di Milano, Department of Architecture and Urban Studies, DASTU
School of Architecture Urban Planning Construction Engineering

Teachings: “**Fundamentals of Representation**”, “**Representation and Urban Planning**” at the BSc in Architecture and Urban Planning, “**Introduction to Visual Thinking**” at the Master of Urban Planning and Policy Design, Politecnico di Milano

2017–2020

Tenure-track Assistant Professor

Politecnico di Milano, Department of Architecture and Urban Studies, DASTU
School of Architecture Urban Planning Construction Engineering

2012 – 2017

Non-tenure-track Assistant Professor

Politecnico di Milano, Department of Architecture and Urban Studies, DASTU
School of Architecture Urban Planning Construction Engineering

2004 – 2012

Adjunct Professor

Politecnico di Milano, Department of Architecture and Urban Studies, DASTU
School of Architecture Urban Planning Construction Engineering

2006 – 2007

Adjunct Professor

IUAV, Venice

OTHER ACADEMIC ACTIVITIES

2021 – now

Member of the Doctoral Board in PRESERVATION OF THE ARCHITECTURAL HERITAGE at the Politecnico di Milano PhD School.

2024-now

PhD Supervisor, Preservation of Architectural Heritage PHD Course, DASTU, Politecnico di Milano, research project: “CH-XAi-GIS For The Development of Innovative Indicators In Evaluating, Managing, And Enhancing Historic Settlements”

2020 – 2024

PhD Supervisor Urban Planning, Design and Policy PHD Course, DASTU, Politecnico di Milano, PhD Candidate: Lorenzo Ceccon, research project: “Artificial Intelligence and Internet of Things impact on 5G City”

2017 – now

Member of the scientific editorial board of the academic journal TERRITORIO

Franco Angeli

2017 – 2022

Member of the board of the Department of Excellence project TERRITORIAL FRAGILITIES, DASTU, Politecnico di Milano

2019 – now

Member of the coordinating board of the Course of Studies in Urban Planning, City, Landscape, Politecnico di Milano

2015 - now

Member of the research lab CLIP.lab – Cultural Landscape Information and Planning
DASTU, Politecnico di Milano

FUNDED RESEARCH PROJECTS

2020 – 2022

National Research “**BASE5G - Broadband InterfAces and services for Smart Environments enabled by 5G technologies**”

WP: Smart City – Smart Learning

P.I. Prof. Andrea Cesana (DEIB)

Funding body: Government of the Lombardy Region - Italy

2015 – 2017

National Research: “**Experimental methodologies for analysis, mapping and integrated information management of spatial and architectural transformations of widespread cultural heritage. Digital Heritage FOSS (Free and Open Source Software) Tools, OpenWebGIS (Geographic Information System), Open-Data**”

P.I. Prof. Daniele Villa

www.od4ch.org

Funding body: Politecnico di Milano

2015 – 2021

National Research: “**Alternanza Scuola-Patrimonio: Innovative technologies for heritage education**”

P.I. Prof. Daniele Villa

Funding body: Ministry of Culture - Management Authority of the UNESCO Sacred Mountains

www.sacrimonti.org

2018 – 2019

National Research “**Implementation of 5G pre-commercial trials**”

Smart city – Smart Education WP

P.I. Prof. Antonio Capone

Funding body: Vodafone It - Ministry of Commerce

2017 – 2018

National Research “**Cerchio d’Acqua - Resilient communities for the rediscovery of Sabbioneta's riverbanks**”

P.I. Daniele Villa

Funding body: UNESCO, City of Sabbioneta – Italy

2018 – 2020

National Research “**ScAR – School Active Resources**”

Polisocial Award 2018-2020, Politecnico di Milano

P.I: Nicoletta Di Blas

www.scar.polimi.it

Funding body: Politecnico di Milano

2015 –2016

International Research “**Scientific support within the Italy-Switzerland cross-border cooperation project The Alpine cultural landscape on Wikipedia**”

P.I. Prof. Rossella Salerno

Funding body: EU

POST DOC RESEARCH

2012 – 2013

“Innovative methodologies, tools and technologies for the analysis and interpretation of transformations in European urban regions”

Politecnico di Milano, Department of Architecture and Urban Studies, DASTU

2011 –2012

“Innovative methodologies, techniques and tools for shared landscape representation and enhancement of diffuse cultural heritage”

Politecnico di Milano, Department of Architecture and Urban Studies, DASTU

2010 – 2011

Politecnico di Milano, Dipartimento di Architettura e Pianificazione,

“M’Appare Milano: Innovative tools and methods for shared metropolitan landscape representation and e-participation”

Politecnico di Milano, Department of Architecture and Urban Studies, DASTU

2009- 2010

“Representation methods for planning tools and participatory practices”

Politecnico di Milano, Department of Architecture and Urban Studies, DASTU

EDUCATION AND TRAINING

2005-2008

PhD IN URBAN AND REGIONAL PLANNING

PhD Thesis: "Renewal in knowledge processes: describing and representing complex urban territories. The case of the Milan metropolitan region "

Tutor: Prof. Alessandro Balducci - Prof.ssa Rossella Salerno.

Politecnico di Milano, Department of Architecture and Urban Studies, DASTU

1992-2001

MA IN ARCHITECTURE

Politecnico di Milano, Department of Architecture and Urban Studies, DASTU

ORGANIZATION OF NATIONAL AND INTERNATIONAL CONFERENCES

2024 International Conference

"**EURAU 2024 – In-Presence The Body and the space
The role of corporeity in the era of virtualization**",

Politecnico di Milano, Giugno 2024

www.eurau milano.polimi.it

2021 International Conference

"**IMG21 – Image Learning**",

Politecnico di Milano – Università di Milano Bicocca Milano, Novembre 2021

www.img-network.it

2019 National Conference

"**2 nd. BRAINSTORMING BIM VR | AR | MR 2019 CONFERENCE**"

Politecnico di Milano

2021 International Conference

"**IMG2019 GRAPHICS/-GRAFICHE**"

Università degli Studi di Sassari

www.img-network.it

2018 International Conference

"**Rappresentazione / Materiale / Immateriale**",

Politecnico di Milano

2017 National Conference

"**IMMAGINI? Image and imagination between representation, communication
pedagogy and psychology**"

Università di Bolzano

2017 National Conference

"**OD4CH – OpenData for Cultural Heritage**",

Politecnico di Milano

www.od4ch.org

2015 International Conference

“Third International Conference New Urban Languages – Tales and Images of Spatial Justice”,

TU Delft

www.newurbanlanguages.eu

2015 International Conference

“Second International Conference New Urban Languages - Re-thinking Urban Ideology in Post-ideological Times”,

Universidad Politecnica de Madrid

www.newurbanlanguages.eu

2013 International Conference

“New Urban Languages - Re-Imaging the City after the Knowledge-Based Turn”,

Politecnico di Milano

www.newurbanlanguages.eu

PUBBLICATIONS

“Digital Hybridisation and Communication of the Design Process. The Case of Animated GIF” in DISEGNO, 13-2023, ISSN: 2533-2899

<https://dx.doi.org/10.26375/diseagno.13.2023.10>

“Diritto agli odori e diritto al paesaggio urbano: forme di una nuova consapevolezza” in Turci, M. (a cura di), “I diritti naturali di bambine e bambini”, Fulmino Edizioni, ISBN 978-88-6150-074-7

“Nuovi codici qualitativi del disegno architettonico. Lo spazio assonometrico come metafora”, in TERRITORIO, vol.103, Franco Angeli, ISSN:1825-8689, 2022

“Pastiche visuali e intelligenza artificiale. Iporealismo, pittoresco, simulacri”, in TERRITORIO, vol.102, Franco Angeli, ISSN:1825-8689, 2022

“Linee: visione, disegno, territorio”,

in TERRITORIO, vol.98, Franco Angeli, ISSN:1825-8689, 2020

“La mappa di tutti. Dall’informazione geografica volontaria al crowdmapping”,

in TERRITORIO, vol.91, Franco Angeli, ISSN:1825-8689, 2020

C. Bolognesi, D.Villa, 2020, **“From Building Information Modelling to Mixed Reality”**

Springer Tracts in Civil Engineering, uscita programmata: 15 Settembre 2020, ISBN 978-3-030-49277-9, <https://www.springer.com/gp/book/9783030492779>

DOI 10.1007/978-3-030-49278-6

D.Villa, L. Ceccon, 2020, **“AI-Bim Interdisciplinary Spill-Overs: Prospected Interplay Of Ai And BIM Development Paradigms”**, in C. Bolognesi, D.Villa (a cura di), 2020, “From Building Information Modelling to Mixed Reality”, Springer Tracts in Civil Engineering, uscita programmata: 15 Settembre 2020, ISBN 978-3-030-49277-9

D.Villa, L. Ceccon, 2020, “**Architectural Visualization in the Age of 5G A Mixed Method Pipeline for Architectural Design Communication**” in E.Cicalò, 2020, (a cura di), “Proceedings of the 2nd International and Interdisciplinary Conference on Image and Imagination”, Springer, ISBN 978-3-030-41017-9

“**Visual Culture in Quantum Mechanics Image-Based Knowledge Making in a Non-Intuitive World**” in A.Luigini, C.Panciroli (a cura di), “IMG journal interdisciplinary journal on image, imagery and imagination”, issue n.1, PUBLICA, pp. 318-333, ISBN 9788899586096, 2019

D.Villa, M.Bovati, 2019, “Il rapporto tra progetto architettonico e open data negli interventi di valorizzazione del patrimonio in contesti fragili” in A.Calderoni, B.Di Palma, A.Nitti, G. Oliva, “Il progetto di architettura come intersezione di saperi. Per una nozione rinnovata di Patrimonio”, pp.330-334, ProArch, ISBN:978-88-909054-9-0

D.Villa, E.Garda, S.Saloriani, 2019, “**Community-based data for a new taxonomy of abandoned places**”, in “Planning for Transition- AESOP Book of Papers”, pp. 1247-1255, ISBN:978-88-99243-93-7

“Montagne di carta. Tradizione e innovazione nel disegno delle terre alte”, in TERRITORIO, vol. 89, pp.183-194, Franco Angeli, ISSN:1825-8689, 2019

C. Casonato, N. Di Blas, M. Bordin, B. Bonfantini, V. Pracchi, D.Villa, M.Vedoà, G.Cossa, 2019, “A scuola di paesaggio. Mappa partecipata del patrimonio culturale di Milano sud”, Planum Publisher, ISBN:9788899237165

B.Bonfantini, C.Casonato, D.Villa, N.Di Blas, V.Pracchi, M.Vedoa, 2019, “**Revealing the everyday landscape: Innovative systems for heritage education in schools. The ScAR (school activates resources) project**”, in “International Archives Of The Photogrammetry, Remote Sensing And Spatial Information Sciences”, vol. 42 (2), pp.255-261, ISSN:2194-9034

“Dati aperti e frontiere della cultura visiva urbana”, in TERRITORIO, vol.88, pp.171-188, Franco Angeli ISSN:1825-8689, 2019

“Sguardi di paesaggi fragili”, in TERRITORIO, vol.87, pp.178-188, Franco Angeli, ISSN:1825-8689, 2019

“Sketch & the City”, in TERRITORIO, vol. 86, pp.175-186, Franco Angeli, ISSN:1825-8689, 2018

“Info grafie urbane”, in TERRITORIO, vol. 85, pp.176-188, Franco Angeli, ISSN:1825-8689, 2018

“Social media per l’educazione al patrimonio del sito Unesco Sacri Monti di Piemonte e Lombardia”, in A.Luigini, C.Panciroli (a cura di) “Ambienti digitali per l’educazione all’arte e al patrimonio”, pp. 282-293, Franco Angeli, ISBN:9788891773333

“**Haptic Drawing Renaissance: digital behaviors impact on cognitive actions. Immersive sketching, haptic drawing, virtual reality, augmented reality**”, in R.Salerno (a

cura di) “Rappresentazione Materiale/Immateriale Drawing As (In) Tangible Representation”, Gangemi, pp.1445-1450, ISBN:978-88-492-3651-4, 2018

“Territori assonometrici e visione tattile: una astrazione visuale ‘prensiva’
in: TERRITORIO, n.84, Franco Angeli, Milano, 2018

“Paesaggi fragili, Digital Humanities, Open Data: coniugare digitalizzazione, informazione e comunicazione del patrimonio culturale.”
in : Attivare Risorse Latenti, a cura di Bertrando Bonfantini, Planum Publisher, Milano, 2017

“Visualizing Spatial Justice”

in: New Urban Languages-Tales and Images of Spatial Justice, TUDelft Ed., Delft, 2016

“Il Disegno poroso. Ampelio Tettamanti e il pittoresco urbano nella Milano che cambia”
in: 15 Paesaggi Umani. Ampelio Tettamanti e Milano, Nomos Edizioni, Varese, 2016

“Evolving Role of Drawing in Times of Architectural Web-Broadcasting”

in: Le Ragioni del Disegno, Gangemi, Roma, 2016

“Ridisegnare la montagna. Verso una genealogia della rappresentazione alpina moderna: da Eduard Imhof alla Realtà Aumentata”

in: Idee per la Rappresentazione 7- Visualità, Artegrafica, Roma, 2016

“Pesaggi culturali in rete.

Metodi sperimentali per l’analisi, la mappatura, la gestione informativa integrata, la riattivazione del palinsesto insediativo storico e del patrimonio culturale diffuso”

with Bertrando Bonfantini, in: Urbanistica Informazioni n.263, Roma, 2015

“Alpinescapes: making the Alpine fringes visible trough OpenData and Crowdsourced Cartography”

with Michele Ferretti e Paolo Tagliolato, in: Geomatic Workbooks n.12, Milano, 2015

"What is the City but the People?"

Redraw the Perceived Townscapes: Visual Genealogies and Contemporary Trends”

in: Disegno & città-Drawing & city, Gangemi, Roma, 2015

“WebGis Qualitativi nel rilievo dei paesaggi culturali e del patrimonio diffuso. Note da un'esperienza italo-svizzera”

in: Italian Survey and International Experience, Gangemi, Roma, 2014

“Visualizzare la Massa Le pratiche di partecipazione basate sul Web come strumenti innovativi nel disegno e nella mappatura di Milano Città Metropolitana”

in: DISEGNARE CON, Vol. 7, 2014

“Identità Digitale dei Luoghi. Sviluppi e prospettive dell’informazione geografica volontaria nell’era dei geo-social network”

in: Atti del XXXI Congresso Geografico Italiano, Mimesis, Milano, 2014

“Imagine the City Beyond the Visible”

in: NUL - New Urban Languages, Milan 19-21 June 2013 Conference Proceedings

Edited by Rossella Salerno and Daniele Villa, Planum, Milano, 2013

“Architectural Representation Studio”

with Rossella Salerno, in: Seminario dei Laboratori di Rappresentazione, Maggioli, Milano, 2012

“e-Participation e Qualitative GIS. Metodologie e prospettive di sviluppo nelle analisi qualitative del paesaggio.”

in: Sistema Paesaggio. Osservatorio del Paesaggio del Monferrato Casalese, Poliprint, Milano, 2102

“**From location-aware technologies to open data: toward a new urban research agenda**”

with Fabio Manfredini in Planning Support Tools: Policy Analysis, Implementation and Evaluation. Edited by Michele Campagna, Andrea De Montis, Federica Isola, Sabrina Lai, Cheti Pira, Corrado Zoppi Franco Angeli, Milano, 2012

“**Visualizing Crowdsourced Urban Landscapes.**

The impact of social networking in participatory practices”

in: My Ideal City. Scenarios for the European City of the 3rd Millennium

Edited by Sara Marini, IUAV, Venezia, 2011

“**Sharing heritage: the Urban Ecomuseum in Milan**

experiences of participation and new information technologies”

with Rossella Salerno e Camilla Casonato

in: S.A.V.E. heritage. a cura di Carmine Gambardella, La Scuola di Pitagora Editore Napoli, 2011

“La rappresentazione del territorio fra vecchie carte, nuovi strumenti e nuovi soggetti.”

in: “Teorie e tecniche della rappresentazione contemporanea”, a cura di Rossella Salerno Maggioli, Milano, 2011

“ **Perception, Representation, Awareness: the EUMM’s Experience** ”

with Rossella Salerno e Camilla Casonato,

in “LIVING LANDSCAPE The European Landscape Convention in research perspective” , Bandecchi&Vivaldi Editori, Firenze, 2010, pag. 102-113

“ Metodologie di simulazione urbana e ambientale ”

with Rossella Salerno e Camilla Casonato, in “ Rappresentazione, dalla formazione alla professione ”, a cura di Renata Bizzotto, Carlo Mezzetti, Nicolò Sardo, Edizioni Kappa, Roma, 2009, pag. 126-129

“ Web-community, politiche, pianificazione .Ruoli ed esiti di alcuni sistemi cooperativi basati sul web ” in “Urbanistica Digitale” a cura di Francesco Domenico Moccia, Edizioni Scientifiche italiane, Napoli 2008, pp. 337-345.

“ Il paesaggio nella metropoli: luoghi, popolazioni, ibridi ” in “Paesaggi Culturali-Cultural Landscapes”, a cura di Rossella Salerno e Camilla Casonato, Gangemi, Roma, 2008, pp. 167-

“ Rappresentazione partecipata del territorio e Web 2.0, il caso delle web-community ” in “ Idee per la rappresentazione”, a cura di Fabio Quici, FormAct, Roma, 2008, pp. 120-127

“ La candidatura di Milano per Expo 2015: linee di progetto per riparare l’ambiente delle aree di frangia milanesi ”

with Eugenio Morello, Paolo Carli, Elvira Pensa in Territorio, n. 43, Franco Angeli, Milano , 2008, pp. 53 – 61 ISSN 1825-8689

“ Rappresentazioni di Città ” curatela del volume with di Rossella Salerno, Franco Angeli, Milano settembre 2006

“Attraverso la Valle delle Cartiere. Il problema della naturalità composita ” in “Codici del disegno di progetto”, a cura di A.Pratelli, Forum Edizioni, Udine 2006, pp. 99-104

“Rappresentazione e reti ambientali: I termini di una questione aperta”
in “Sui codici del disegno di progetto”, a cura di P.Boltri, CUSL Edizioni, Milano, 2006
pp. 71-75

“ Paesaggi ibridi e città diffusa ” in “FRAMES –Frammenti di Architettura e Paesaggio”, a cura di A.Giordano e C.Zanchetta, Libreria Internazionale Cortina, Padova 2006, pp. 51-55

Milano, July 2024

A handwritten signature in black ink, appearing to read "Davide Villa". The signature is fluid and cursive, with a prominent flourish at the end.