

Curriculum Vitae

Personal information

First name / Family name **Caterina Pietra**

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ID WeChat Cate_Pietra

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Nationality Italian

Date of birth 22.01.1994

Gender Female



Education and training

From 12.10.2019 to 18.12.2019
PhD Exchange Period
Tutor: Professor Tiziano Cattaneo
College of Design and Innovation – D&I
Location: Shanghai – Tongji University, P.R. China

July 2019
Graduation to Professional Engineer
Location: Pavia – University of Pavia, Italy

January 2019
Graduation to Professional Architect
Location: Parma – University of Parma, Italy

Since October 2018
PhD Candidate XXXIV Cycle
Research course in Design, Modeling and Simulation in Engineering
Urban Project Laboratory – UPLab
Tutor: Professor Roberto De Lotto
Department of Civil Engineering and Architecture - DICAR
Location: Pavia – University of Pavia, Italy
2 years enrolled

September 2017 – June 2018
Master Degree in Architecture
Department College of Architecture and Urban Planning - CAUP
Location: Shanghai – Tongji University, P.R. China
1 year as Master Double Degree Student

October 2013 – June 2018
Single Cycle 5 degree / Combined Bachelor and Master in Building Engineering and Architecture
Department of Civil Engineering and Architecture
Location: Pavia – University of Pavia, Italy

September 2008 – July 2013
Scientific High School Diploma PNI, Istituto di Istruzione Superiore “L.G. Faravelli”
Location: Broni (Pavia), Italy

Personal skills and competences

Mother tongue

Italian

Other language

English, Spanish, Chinese

Self-assessment

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production		Writing	
C2	excellent	C2	excellent	C2	excellent	C2	excellent	C2	excellent

English

Spanish

Chinese

Basic understanding of the spoken language

Basic understanding of the spoken language and basic spoken production

- From March 2017 to June 2017

Attendance to basic Chinese course (level A1), University of Pavia

**Workshops,
Competitions,
Exhibitions**

To have participated:

- From 20.11.2019 to 22.11.2019 **“ILAUD 2019 Shanghai Workshop”**

Participation as Tutor

Tongji University, Xi'an Jiatong-Liverpool University, University of Pavia, Polytechnic of Milan, University La Sapienza of Rome, Kunming University of Science and Technology, University of Xiamen, University of Nottingham

- November 2018 **“Taihu Cultural Heritage Rehabilitation Competition”**

3rd Prize money – Project: “Community Condenser” elaborated during Tongji CAUP International Summer School

- September 2018 **“TICCIH Chile 2018 Congress”**

Patrimonio Industrial: Entendiendo el Pasado, Haciendo el Futuro Sostenible

Industrial Heritage: Understanding the Past, Making the Future Sustainable

- From 05.08.2018 to 15.08.2018 **“Tongji CAUP International Summer School”**

Rehabilitation of Built Heritage in Urban Transformation - 城市转型中的建成遗产再生

- 22.06.2018

Thesis Exhibition at **Sino Italian Center for Environment and Sustainability** - SICES, Tongji University, event supported by the Italian Environment Ministry with the patronage of the Association of Italian Academics in China

- From 17.11.2016 to 21.11.2016 **“Rocca San Silvestro Work Camp - Restoration and fruition of archaeological sites”** - University of Pavia and Florence

- From 13.04.2015 to 17.04.2015 **“Laboratory Landscape, Survey and Design - Workshop of architectural survey”**, Integrated detection systems of the sanctuary of La Verna (Arezzo) - University of Pavia, Florence and Bologna

- From 25.10.2010 to 30.10.2010 **“Learning Week – Trespassing: a methodological comparison in artistic area”** in collaboration with ITAP (International Theatre Artist Paris) - Paris, Centre Artistique de la Ville de Paris 104

Computer skills and competences

Operating systems:

Microsoft Windows
Macintosh Apple OS X
(and related basic software: Microsoft Office, Apple iWork)

Software for graphics and design:

Autodesk AutoCAD
SketchUP
Adobe Photoshop
Adobe Indesign
Adobe Illustrator
Lumion 3D

Software for architectural survey:

Agisoft Photoscan
Cyclone

PhD Activities

Research

- Field of study: research activity on different topics belonging to the contemporary scientific debate related to urban studies, in particular:
Urban regeneration planning strategies of the existing city;
Flexible city;
Smart city and smart communities;
Healthy City.

Didactic activity

AY 2019-2020

- External examiner for final projects presentation, 04.07.2020
College of Design and Innovation - Tongji University, Shanghai, P.R. China
Course Theme: Re-Naturing cities. Nature-based solutions for sustainable urban community
Teacher: Professor Tiziano Cattaneo

- #TJ-JDS-SIPING DESIGN STUDIO, LECTURE SERIES, 20.06.2020
College of Design and Innovation - Tongji University, Shanghai, P.R. China
Environmental Design Studio
Teacher: Professor Tiziano Cattaneo

Contribution: *Healthy City: Approaches to plan and measure integrated solutions to improve urban health and well-being*

- Teaching assistant for the course Tecnica Urbanistica, II Semester — Master Degree in Building Engineering and Architecture, University of Pavia
Teacher: Professor Roberto De Lotto, Assistant Professor Elisabetta Maria Venco
Activities: theoretical lessons, exercises, project laboratory tutor
16.06.2020 Project presentation: *Rigenerazione e città pubblica: scenari di riqualificazione funzionale e paesaggistica*

- Collaborator and organizer for the VIII and IX cycle of Double Degree Program in Building Engineering and Architecture between University of Pavia and Tongji University
Director of Pavia: Professor Roberto De Lotto
Activities: support to Italian and Chinese students, help with documentation and paperwork, welcoming organization

AY 2018-2019

- Teaching assistant for the course Tecnica Urbanistica, II Semester — Master Degree in Building Engineering and Architecture, University of Pavia
Teacher: Professor Roberto De Lotto
Activities: theoretical lessons, exercises, project laboratory tutor

- Collaborator and organizer for the VII and VIII cycle of Double Degree Program in Building Engineering and Architecture between University of Pavia and Tongji University
Director of Pavia: Professor Roberto De Lotto
Activities: support to Italian and Chinese students, help with documentation and paperwork, welcoming organization

Training activities

- Short and specific courses for PhDs
Open access, Open data, open science + Bibliometria - una definizione ampia – applicazioni, 12.02.2020 [1 cfu] – A.Y. 2019-2020, II Semester, Prof. Paola Galimberti

- Cibo e salute: The MediterrAsian Diet, January 21st – February 18th 2020 [4 cfu] – A.Y. 2019-2020, II Semester – Prof. Mariangela Rondanelli

- Linguaggi, problemi e metodi della comunicazione della ricerca scientifica, February 4th – April 9th 2019 [8 cfu] – A.Y. 2018-2019, II Semester – Prof. Marco Cagnotti (coordinator), Prof. Alessandro Bacchetta, Prof. Cinzia Dal Maso, Prof. Maria Freddi, Prof. Gianluca Mainino
Course for doctoral students aimed at developing communication skills and techniques essential for effective written and oral communication.
Main topics:
 - I fondamenti della comunicazione (Prof. M. Cagnotti);
 - Writing in English for scientists (Prof. M. Freddi);
 - Presentation Making (Prof. A. Bacchetta);
 - Public Speaking (Prof. G. Mainino).

- Academic courses
Fotogrammetria, Lidar e GIS, A.Y. 2018/2019, II Semester [6 cfu] – Prof. V. Casella
Main topics:
 - Traditional cartography;
 - Numerical cartography;
 - Digital images and raster cartography;
 - DTM, DSM;
 - How to manage cartography and DTM through ArcGIS;
 - Analytical and digital photogrammetry;
 - Discussion on orthophotos;
 - Elements on laser scanning.

Papers published in conference proceedings

- Roberto De Lotto, Caterina Pietra, Elisabetta Maria Venco. *Territorial Attraction for New Industrial-Productive Plants. The Case of Pavia Province*.
20th International Conference ICCSA 2020 on “Computational Science and Its Applications”.
Workshop Cities, Technologies and Planning (CTP 2020), 1-4 July, University of Cagliari (web conference)
- Roberto De Lotto, Caterina Pietra, Elisabetta Maria Venco. *A new Lombardy Region Law: regeneration toward (almost) free planning*.
4th Edition of the International Symposium “New Metropolitan Perspectives”.
Thematic session 06, Web Conference 26-28 May 2020
- Roberto De Lotto, Caterina Pietra, Elisabetta Maria Venco. *Open source data and tools for Disaster Risk Management: definition of Urban Exposure Index*.
XXIV International Conference LWC 2019 “PEDESTRIANS, URBAN SPACES AND HEALTH”.
Safety of urban environment, University of Brescia, 12-13 September 2019
- Roberto De Lotto, Caterina Pietra, Elisabetta Maria Venco. *Risk Analysis: A Focus on Urban Exposure Estimation*.
19th International Conference ICCSA 2019 on “Computational Science and Its Applications”.
Workshop 1, Saint Petersburg, 1-4 July 2019, ICCSA 2019, LNCS 11620, pp. 407–423, 2019
https://doi.org/10.1007/978-3-030-24296-1_33
- Caterina Pietra, Elisabetta Maria Venco. *Urban Regeneration for Smart Communities: Applying Methods for Megalopolis and Towns in China*.
International Conference on Innovation in Urban and Regional Planning “INPUT aCAdeMy 2019 – planning, nature and ecosystem services”.
Session 7, University of Cagliari, 24-26 June 2019, Editors: Gargiulo, C., Zoppi, C., Napoli: FedOAPress. 2019 – (Smart City, Urban Planning for a Sustainable Future. 5.), pp. 611-624
doi: 10.6093/978-88-6887-054-6
- Roberto De Lotto, Caterina Pietra, Elisabetta Maria Venco. *Impatto sui modelli abitativi di strutture di scala nazionale: il caso del centro multifunzionale Westfield a Segrate*.
XXII SIU National Conference “L’URBANISTICA ITALIANA DI FRONTE ALL’AGENDA 2030: Portare territori e comunità sulla strada della sostenibilità e della resilienza”.
Workshop 1.3, Bari, 5-7 June 2019, Planum Publisher, Roma Milano, pp. 483-490
ISBN 9788899237219
- Roberto De Lotto, Caterina Pietra, Elisabetta Maria Venco. *Criteri di valutazione di efficacia della pianificazione preventiva. Dalla teoria ai casi studio*.
XXII SIU National Conference “L’URBANISTICA ITALIANA DI FRONTE ALL’AGENDA 2030: Portare territori e comunità sulla strada della sostenibilità e della resilienza”.
Workshop 2.1, Bari, 5-7 June 2019, Planum Publisher, Roma Milano, pp. 641-647
ISBN 9788899237219

Papers/works accepted

- Tiziano Cattaneo, Ni Mingqing, Caterina Pietra, Roberto De Lotto. *Landscape and Health: The Case of Siping Community in Shanghai*.
27th World Congress of Architects, UIA2021RIO “All the worlds. Just one world. Architecture 21”
Rio de Janeiro, 18-22 July 2021
- Pan Jiang, Caterina Pietra, Baoman Shi, Seth Healy. *Community Condenser – Granary space regeneration design in Lianshi Town*.
27th World Congress of Architects, UIA2021RIO “All the worlds. Just one world. Architecture 21”
Rio de Janeiro, 18-22 July 2021

Participation to conferences

- Confindustria Pavia, Regione Lombardia, Università di Pavia
La nuova Legge di Rigenerazione Urbana: Misure di incentivazione e semplificazione urbana e territoriale, University of Pavia 03.02.2020
Organization and secretary

- UrbIng PhD, University La Sapienza, Rome 24.05.2019
Contribution: *Healthy City: Approaches for planning and monitoring integrated solutions to improve urban health and well-being*

- Westfield: THE BIG ONE, University of Pavia 10.05.2019
Organization and secretary

- Confindustria Pavia, Order of the Engineers of Pavia and the Chamber of Commerce of Pavia
Revision of the educational offer of the Faculty of Engineering, University of Pavia 12.04.2019
Contribution: Master Degree Thesis, *Heritage Conservation and Urban Regeneration: New Challenges in Industrial Context along The East Bund of Shanghai*

- Thesis Laboratory Presentation, University of Pavia 24.01.2019
Contribution: Master Degree Thesis, *Heritage Conservation and Urban Regeneration: New Challenges in Industrial Context along The East Bund of Shanghai*

Other works and activities

- December 2019
Publication of the book edited by Caterina Pietra: *Urban Regeneration and Industrial Conservation: Heritage for Smart Communities in China*, Maggioli Editore, Milan
ISBN 978-88-916-3238-8
https://www.maggiolieditore.it/urban-regeneration-and-industrial-conservation.html#product_tabs_description_tabbed

Contributions from:

Chen Yi, Quan Meiyan, Yan Jun, Ye Jun, Ma Yue
College of Architecture & Urban Planning - CAUP, Tongji University, Shanghai, P.R. China
Contribution: *General Analysis on Challenges and Evaluation System for Resilience of Megacities in China*

Elisabetta Maria Venco

Department of Civil Engineering and Architecture - DICAr, University of Pavia, Italy
Contribution: *Advanced planning as urban regeneration. Preventing and managing risks*

Emanuele Giorgi, Nélida Astrid Escobedo Ruíz, María Dolores Traslaviña García
School of Architecture, Art and Design of Tecnológico de Monterrey in Chihuahua, Mexico
Contribution: *Urban regeneration and industrial legacy: the Fundidora Park case in Monterrey, Mexico*

Roberto De Lotto

Department of Civil Engineering and Architecture - DICAr, University of Pavia, Italy
Contribution: *Environment and Heritage in Urban Regeneration: General Considerations and a Methodological Proposal*

Tiziano Cattaneo

College of Design and Innovation - D&I, Tongji University, Shanghai, P.R. China
Contribution: *Urban Regeneration in Shanghai: Toward a Zero Growth in Urban Construction Land*

- July 2019

Cooperation in drafting planning tools for the Municipality of Viadana (Mantova), Italy
Variante al Piano di Governo del Territorio
Valutazione Ambientale Strategica (VAS), Valutazione Ambientale di Incidenza (VIC)
<https://comune.viadana.mn.it/contenuti/18217/comunicazioni-varie>

- From May 2019 to September 2019

Educational training project at Segrate Municipality (Milan), Italy
Activities: collaboration with the technical department for the drafting up of an international design competition for Segrate Municipality

Organisational skills and competences

To have carried out:

- From March 2017 to September 2017 part-time job at Department of Civil Engineering and Architecture of Pavia University - Activities: help desk in libraries, museums and archives, and structures in the didactic, scientific and students' assistance structures

Social skills and competences

- From 04.04.2019 to 07.04.2019
Worker as secretary for the "Stradella international music competition"

- February 2017 - May 2017
Collaborator for the realization of the book
"Cara Dipendenza: la droga attraverso gli occhi di un ragazzo"
Taking care of the graphics and the layout
Book realized thanks to Italian Red Cross and the students of the Comprehensive School of Santa Maria della Versa (Pavia), Italy
<https://www.amazon.it/>

- 2015 – 2016, 2016 – 2017, 2018 – 2019, 2019 – 2020 Theatre seasons
Worker as usher at the Theatre of City of Stradella (Pavia), Italy

- Since 2011 to now
Voluntary of C.R.I (Italian Red Cross)

Other skills and competences

I've achieved these certificates of participation in English courses:

- From 08.02.2012 to 15.02.2012 Language programme in Winchester – UK "Project: your life"

- August 2010 Rider University – Los Angeles California U.S - Course of Advanced Level

- From 08.07.2009 to 17.07.2009 "English language Course at Cheltenham UK - Language Level Advanced

Driving licence

- From 15.06.2012: licence B
- From 16.07.2013: licence C.R.I. type 1-3-4

Stradella, 08.07.2020

Signature: 