University Academic Curriculum Vitae

Personal information Chiara Tardini

Education since leaving school

- 1996 MS in Architecture (Politecnico di Milano);
- 2012 PhD cum Laude in Preservation of Architectural Heritage "Towards structural mechanics through wooden bridges" (Politecnico di Milano)

Present appointment

- Professional Architect and teaching assistant at Politecnico di Milano
- From 2000 – to date
- National context
- Partner of UNO-A Associated Architects. Manager of the retrofitting and preservation of architectural heritage.
- Collaboration in the analysis and tests of structural materials in an Engineering firm in Milan

Professional experience

From / to	Job title	Name of academic Institution	Academic level	responsibilities
2007-2008	Research associate	Politecnico di Milano	Research associate	Developing research on Seismic vulnerability indicators for timber roof structures
2009-2011	Research associate	Politecnico di Milano	Research associate	Developing research on Innovative joints in structural wood elements
2010-2013	Research associate	Politecnico di Milano	Research associate	Developing research on Evaluation of the seismic vulnerability of masonry buildings, historical towns and cultural heritage
2014-2015	Research associate	Politecnico di Milano	Research associate	Developing research on Seismic behaviour of timber structures
2014-2015	Technical manager	Politecnico di Milano and MiBACT	Research associate	Seismic safety assessment of Italian Museums
2014-2018	Research associate	Politecnico di Milano	Research associate	Developing research on Evaluation of the effects of structural strengthening interventions on energy performance
2020	Research associate	Politecnico di Milano	Research associate	Developing research on Structural and typological characterization

				of two Campania's Municipalities and compilation of the vulnerability Cartis form

Experience in academic teaching

- 2019/2020 *Material Sciences* **Free University of Bolzano**, ING/IND 22, undergraduate level;
- 2020/2021 *Material Sciences* **Free University of Bolzano**, ING/IND 22, undergraduate level;
- 2022/2023 *Material Sciences* **Free University of Bolzano**, ING/IND 22, undergraduate level;

Memberships

- Member of the Professional Association of Architects of the Province of Milano
- Member of ICOMOS Italian Wood Committee
- Expert member of International ICOMOS Wood Committee
- Member of the Construction History Society and of the Construction History Society of America
- Member of the Register of Energy Certifiers of the Lombardy Region and Province of Trento

Research and scholarships

- 2019 - Research activity (and scholarship) at Politecnico di Milano. Re.L.U.I.S. Re.L.U.I.S. - DPC 2014-2018, Research line: WP5 Timber roof structures. WP3 – Task 3.2 Evaluation of the effects of structural strengthening interventions on energy performance - DPC 15-18 project; Prof. Eng. M.A. Parisi.
- 2020 - Research activity (and scholarship) on the "Structural and typological characterization of two Campania's Municipalities and compilation of the vulnerability Cartis form" Università Federico II, Napoli, Department of Engineering and Architectural Structures, Prof. Eng. Raffaele Landolfo.

Date granted	Award Holder(s)	Funding Body	Title	Amount received
2008	Chiara Tardini	Politecnico di Milano	Seismic behaviour of timber structures; (Re.L.U.I.S. - DPC 05-08 project)	8.000 €
2009-2011	Chiara Tardini	Ministry of University and Research	Doctoral Scholarship	36.000 €
2012-2015	Chiara Tardini	Politecnico di Milano	Post-doc Scholarship	50.000 €
2016	Chiara Tardini	Deutsches Museum - Munich	The role of Wilhelm von Pressel in European Railroad Design	7.500 €
2013	Chiara Tardini	AREA Science Park of Trieste	Best PhD thesis adopting patents	2.500 €
2017-2019	Chiara Tardini	Politecnico di Milano	Post-doc Scholarship	34.000 €
2020	Chiara Tardini	Università Federico II, Napoli	Structural and typological characterization of two Campania's Municipalities and compilation of the vulnerability Cartis form	6.000 €

Publications

Books – Authored

- C. Tardini "Toward structural mechanics through wooden bridges in France (1716-1841)" Springer, Berlin, 2014, ISBN: 978-3-319-00286-6 (print) 978-3-319-00287-3 (Online)

https://doi.org/10.1007/978-3-319-00287-3.

Conference papers

- MA Parisi, C Poggi, G Fava C Tardini, “Experimental studies on timber beam connections with glued-in fiber reinforced plates” 11th World Conference on Timber Engineering, Riva del Garda, 20-24 June 2010
- MA Parisi, M Riggio, C Tardini, M Piazza “Rehabilitation of timber structures and seismic vulnerability: a case study” in Advanced Materials Research, Trans Tech Publications, Switzerland, 2010, vols 133-134, pp. 741-746, ISBN 978-0-87849-239-8, doi:10.4028/www.scientific.net/AMR.133-134.741
- MA Parisi, C Tardini “Historical knowledge in the preservation of heritage timber structures” SHATIS 2011 International Conference on Structural Health Assessment of TImber Structures, Lisbon, 16–17 June 2011
- MA Parisi, C Poggi, G Fava, C Tardini “Fiber reinforced connections for timber members: an experimental and numerical study” 6th International Conference on FRP Composites in Civil Engineering, Roma, 13–15 June 2012
- MA Parisi, C Chesi, C Tardini “The role of timber structures in the seismic response” 15th World Conference of Earthquake Engineering, Lisbon, 24–28 September 2012, ISBN 978-1-63439-651-6
- MA Parisi, C Chesi, C Tardini, F Altamura “Seismic strengthening of timber roof structures: a case study” 8th International Conference on Structural Analysis of Historical Constructions, Wrocław, 15–17 October 2012, pp. 1691-1698, ISBN 978-83-7125-216-7, ISSN 0860-2395
- C Tardini “Experimental values of wood strength in bending between the 17th and the 18th century” SHATIS 2013 2nd International Conference on Structural Health Assessment of TImber Structures, Trento, 4–6 September 2013 Advanced Materials Research Vol. 778 (2013) pp. 3-10, ISBN 978-3-03785-812-7, https://doi.org/10.4028/www.scientific.net/AMR.778.3
- L Cantini, G Cardani, MA Parisi, C Tardini “The analysis and the diagnostic investigation of tuff masonry structures of a historic villa in Naples” (C Modena, F Da Porto, M.R. Valluzzi (Eds)) Taylor and Francis, 2016, pp. 1477-1483, ISBN 978-1-138-02999-6
- L Cantini, A Bonavita, MA Parisi, C Tardini “Historical analysis and diagnostic investigations in the knowledge acquisition path for architectural heritage”, (Van Balen &Verstrynge (Eds)) Taylor and Francis, London, 2016, pp. 166-172, ISBN 978-1-138-02951-4
- L Cantini, G Cardani, MA Parisi, C Tardini “The analysis and the diagnostic investigation of tuff masonry structures of a historic villa in Naples” (C Modena, F Da Porto, M.R. Valluzzi (Eds)) Taylor and Francis, 2016, pp. 1477-1483, ISBN 978-1-138-02999-6;

Journal articles in refereed academic journals

- C Tardini “Evaluating the load bearing capacity of wood elements in early 19th century France”, International Journal of Architectural Heritage, 9(5): 628-638 2015 DOI:10.1080/15583058.2013.850556; ISSN 1558-3058
- M Riggio, D D’Ayala, MA Parisi, C Tardini “Assessment of heritage timber structures: Review of standards, guidelines and procedures” Journal of Cultural Heritage, (31): 220-235, 2018, DOI 10.1016/j.culher.2017.11.007
- A Cividini, F Pergalani, M Compagnoni, MA Parisi, C Tardini, “Local response spectra in seismic safety assessment for architectural heritage in Italy” Ingegneria Sismica - International Journal of Earthquake Engineering 36(4): 57-78, 2019, ISSN 0393-1420
- MA Parisi, C Tardini “Seismic vulnerability assessment of timber

roof structures: criteria and procedures" Structures and Buildings, 174(5): 431-442, 2021, ISSN 0965-0911, DOI 10.1680/jstbu.19.00097

Presentations

- 2023 - 4th International Symposium on the Protection and Utilization of Timber Frame Architectural Cultural Heritage, The role of timber frame system in Earthquake-resistant masonry buildings, 14 October 2023, Ningbo, China (selected)

Statement of interest

My expected contribution to the course of Material Sciences I will be teaching at unibz next year, is to enhance the wealth of knowledge of the students of the Professional Bachelor in Wood Technologies providing them with the knowledge of building materials (reinforced concrete, steel, glass, timber, polymers, FRPs,). Next year the course will be more focused on the energy efficiency of building materials and more devoted to the laboratory. My personal background, both on the academic site (mainly focused on timber as a structural material) and on the professional one as (among others) energy certifier, may be effective throughout the course.

Language competence

Italian: mother tongue
English: Written C1 Spoken: C1
German: Written B1 Spoken A2

June 9th 2024