

Curriculum Vitae

Family Name: da Porto First Name: Francesca Date of Birth: 27 July 1974 Nationality: Italian

Education/ Professional Studies:

Institution: University of Padua
Date From/To: 2000
Degree/ Diploma: Graduation in Architectural Engineering

Institution: University of Trento
Date From/To: 2005
Degree/ Diploma: PhD

Language skills : (From 1 (notions) to 5 (excellent) for competence) (*=mother tongue)

<u>Language</u>	<u>Speaking</u>	<u>Reading</u>	<u>Writing</u>
English	5	5	5
Spanish	5	5	5
Italian	*		

Membership of Professional bodies:

Association of Engineers of Padua, Italy. Since 25/01/2001; No.: 3735

Other skills:

Degree in Architectural Engineering, summa cum laude, at the University of Padua (Italy, October 2000).
Won the 'Foundation A. Gini' scholarship award to carry out studies abroad (2001). Won a scholarship award of the University of Padua to carry out studies abroad (2001). Visiting scholar at the Universitat Politècnica de Catalunya, Departament d'Enginyeria de la Construcció, Barcelona, Spain (November 2001-May 2002).
Internship with the "US/ICOMOS International Summer Intern Program", to work on the "Wooden Covered Bridges Documentation Project" at HAER, National Park Service, U.S. Department of Interior, Washington DC (May-August 2002).

PhD in "Modelling, Conservation and Control of materials and structures", at the University of Trento (Italy, February 2005). She currently has a research contract with the University of Padua to carry out studies on the mechanical behaviour of clay block masonry walls.

She has been working since January 2001 at the University of Padua, cooperating within the R.U. headed by Prof. C. Modena of the Department of Structural and Transportation Engineering in several research project founded by the Italian Ministry of University, Education and Research, by the European Commission and by the industry, regarding: Strengthening of historic masonry structures with traditional and innovative materials and techniques (grout injections, repointing, reinforced repointing, transversal tying, FRP application); on-site investigation techniques for the diagnosis of historic structures and the evaluation of the effectiveness of intervention (sonic test and tomography, flat jack, coring and endoscopy); conservation of historic wooden structures: roofs, floors and bridges; conservation of historic monuments and buildings; modern masonry systems.

She participates in technical committee and working group for study and standardization: RILEM SAM Reunion Internationale des Laboratoires d'Essais des Materiaux – Strategies for the assessment of historic masonry structures with NDT; RILEM MDT Reunion Internationale des Laboratoires d'Essais des Materiaux – Masonry durability and on-site testing; UNI CIS/SC6 Commissione Ingegneria Strutturale/Sottocommissione 6 "MASONRY STRUCTURES". She is member of 'The British Masonry Society' since 2002.

Concerning the call FP6-2003-SME1 (21 ottobre 2004) she has taken care of the presentation of the research project DISWall (Developing Innovative Systems for reinforced masonry Walls) and she has finalized the contract with the European Commission, contract n° COOP-CT-2005-18120.

She carries out seminar activity, within Academic Courses (Structural Problems of Historic and Monumental Structures, Master in 'Structural Conservations of Monuments and Historic Structures') and courses for training of Professionals. She held, as Contract Professor, the course of Structural Analysis and Design during the academic year 2005-2006.

She is author and co-author of about 40 papers.

Present Position within the organisation:

Assistant Professor

Publications (most relevant in the last five years):

- Valluzzi M.R., Bondi A., da Porto F., Franchetti P., Modena C. (2002). "Structural investigations and analyses for the conservation of the "Arsenale" of Venice", *Journal of Cultural Heritage*, Ed. Elsevier, January-March 2002, Vol. 3, n. 1, pp. 65-71.
- Valluzzi M.R., da Porto F., Modena C. (2004). "Behavior and modeling of strengthened three-leaf stone masonry walls" *Materials and Structures - Matériaux et Constructions*, RILEM Publications; Vol. 37, n. 267, April 2004, pp 184-192
- Gasparini D. A., Bruckner J., da Porto F. (2005) "Time-dependent Behavior of Prestressed Wood Howe Bridges", *ASCE Journal of Structural Engineering*; (accepted for publication)
- Gasparini D., da Porto F. (2002). "Prestressing of 19th Century Wood and Iron Truss Bridges in the U.S.", 1st International Congress on Construction History, Madrid, Spain, 20-24 January 2003; Vol. II, pp. 977-986.
- da Porto F., Valluzzi M.R., Modena C. (2002). "Investigations for the knowledge of multi-leaf stone masonry walls", 1st International Congress on Construction History, Madrid, Spain, 20-24 January 2003; Vol. II, pp. 713-722.
- da Porto F., Araiza J.C., Roca P. (2002). "Assessment of load bearing walls through dynamic tests. Application to Gaudi's Palau Güell.", International Conference on Performance of Construction Materials, Cairo, Egypt; 18-20 February 2003; Vol. II, pp. 1227-1235
- da Porto F., Valluzzi M.R., Modena C. (2002). "Performance assessment of different consolidation techniques for multi-leaf stone masonry walls", International Conference on Performance of Construction Materials, Cairo, Egypt; 18-20 February 2003; Vol. I, pp. 403-412.
- Valluzzi M.R., da Porto F., Modena C. (2002). "Admixtures requirements for the injection of stone masonry walls" International Conference on Performance of Construction Materials, Cairo, Egypt; 18-20 February 2003; Vol. I, pp. 393-402 (Awarded with the "Atta-ward Young Researcher Award" as "Best Research Paper Presented by a Young Researcher").
- Valluzzi M.R., da Porto F., Modena C. (2002). "Structural investigations and strengthening of the civic tower in Vicenza", *Structural faults & repair-2003*, Commonwealth Institute, Kensington, London, UK; 1st -3rd July 2003; (CD-ROM)
- da Porto F., Valluzzi M.R., Modena C. (2003). "Use of sonic tomography for the diagnosis and the control of intervention in historic masonry buildings", International Symposium Non-destructive testing in Civil Engineering NDT-CE, Berlin, Germany, 16-19 Sept. 2003; (CD-ROM)
- da Porto F., Valluzzi M.R., Modena C. (2004). "Diagnosis and strengthening of the historic town walls of Cittadella" 6th International Symposium on the Conservation of Monuments in the Mediterranean Basin, Lisbon, Portugal, 7-10 April 2004; (CD-ROM)
- Valluzzi M.R., da Porto F., Modena C. (2004). "Preservation of Masonry church façades: investigation techniques and structural assessments" 6th International Symposium on the Conservation of Monuments in the Mediterranean Basin, Lisbon, Portugal, 7-10 April 2004; (CD-ROM)
- Modena C., da Porto F., Valluzzi M.R. (2004). "Reinforced and Rectified clay blocks masonry" *Sismica 2004*, 6° Congresso Nacional de Sismologia e Engenharia Sismica, Portugal, 14-16 April 2004; pp. 155-177
- Valluzzi M.R., da Porto F., Modena C. (2004). "Strengthening of a masonry vault with GFRP laminates: the case of the church of S.Fermo in Verona"; *Innovative Materials and Technologies for Construction and Restoration -IMTCR04*, Lecce (Italy), 6-9 June 2004; pp. 430-439
- Binda L., Tedeschi C., Saisi A., Zanzi L., da Porto F., Modena C., Valluzzi M.R., Bosiljkov V., Tomaževič M. (2004). "Combined in-situ tests for the assessment of historic masonry structures in seismic regions", IV International Seminar Structural Analysis of historical constructions, Padova, Italy, 10-12 November 2004; pp. 321-329
- Maierhofer Ch., Hamann M., Hennen Ch., Knupfer B., Marchisio M., da Porto F., Binda L., Zanzi L. (2004) "Structural evaluation of historic walls and columns in the Altes Museum in Berlin using non-destructives testing methods", IV International Seminar Structural Analysis of historical constructions, Padova, Italy, 10-12 November 2004; pp. 331-341
- Modena C., Valluzzi M.R., Garbin E., da Porto F., (2004). "A strengthening technique for timber floors using traditional materials" IV International Seminar Structural Analysis of historical constructions, Padova, Italy, 10-12 November 2004; pp. 911-921
- Menichelli A., Modena C., Valluzzi M.R., Garbin E., da Porto F., (2004) "Structural aspects of the timber roofs of the arsenale of venice" IV International Seminar Structural Analysis of historical constructions, Padova, Italy, 10-12 November 2004; pp. 967-975
- Gasparini D.A., Bruckner J., da Porto F. (2004) "Viscoelastic Analyses of a Prestressed Howe Bridge" IV International Seminar Structural Analysis of historical constructions, Padova, Italy, 10-12 November 2004; pp. 983-990
- Lanza F., Mattarucco A., da Porto F. (2004) "Different truss types: long-term creep in wooden bridges. A comparative study of their efficiency" IV International Seminar Structural Analysis of historical constructions, Padova, Italy, 10-12 November 2004; pp. 1001-1007
- Modena C., Valluzzi M.R., da Porto F., Casarin F., Bettio C., (2004). "Structural upgrading of a brick masonry arch bridge at the Lido (Venice)" 4th International Conference on Arch Bridges, Barcelona (Spain) 17-19 November 2004; 435-443
- Valluzzi M.R., Casarin F., Garbin E., da Porto F., Modena C. (2005) "Long-term damage on masonry towers: case studies and intervention strategies", 11th International Conference on Fracture, Turin, Italy, 20-25 March 2005
- da Porto F., E. Garbin, C. Modena, M.R. Valluzzi (2005). "Failure modes for in plane loaded masonry walls made with thin layer mortar" 10th Canadian Masonry Symposium, Banff, Alberta, June 8 – 12, 2005, pp. 694-704
- da Porto F., Casarin F., Garbin E., Grendene M., Modena C., Valluzzi M.R. (2005). "Designed assisted by testing of semi-prefabricated reinforced brick masonry vaults" 10th Canadian Masonry Symposium, Banff, Alberta, June 8 – 12, 2005, pp. 261-271 (Awarded with the "R.G. Drysdale Award - For the best paper on masonry research or education").