

PERSONAL INFORMATION



First Name: **Daniele**
 Last Name: **Casagrande**
 E-mail: casagrande@ivalsa.cnr.it,
 Sex: Male
 Date of birth: 27.05.1983
 Nationality: Italian

WORK EXPERIENCE

- 01.01.2017 – present: **Post-doc Research Fellow** at **CNR IVALSÀ** (Italy) working as coordinator of the TRE3 research project on an innovative prefabricated timber-frame system.
- 01.05.2017 – present: **Principal** of ReWiS, an engineering firm (Italy) formed with the aim of offering a broad range of professional services in the field of timber and seismic structural engineering, such as design, consultancy, technical research and product development.
- 10.05.2014 – 10.05.2015: **Post-doc Research Fellow** at the Department of Civil, Environmental and Mechanical Engineering of **University of Trento** (Italy) regarding the study the seismic behaviour of multi-storey timber buildings and the vibration performances of timber floors.

EDUCATION

- 2014 **Ph.D.** in Engineering of Civil, Structural and Mechanical Systems at the Department of Civil, Environmental and Mechanical Engineering of University of Trento (Italy) working on the seismic behaviour of timber-frame building by means of numerical modelling and full-scale shake table testing. Within the Ph.D. two different research projects (CHI-QUADRATO and SERIES) were carried out on the seismic behaviour of timber frame buildings. I personally lead the design and the analysis of the experimental results of 3 full-scale shake table tests. A significant part of the research regarded, in addition, the proposal of a simplified analysis model for the analysis of multi-storey buildings under lateral loads.
- 2011 **Post-graduation Specialization Master** for the seismic design of structures – MUPAC at University of Trieste (Italy)
- 2009 **Master graduation** with honours in Civil Engineering at University of Trento (Italy)

ADDITIONAL INFORMATION

- 2017-present Committee member in UNI/CT 021/SC 05 as expert at the working group CEN/TC250/SC8/WG3 for the revision of chapter 8 of Eurocode 8 .
- 2016-present Research collaboration with the timber research group lead by prof. G. Doudak of University of Ottawa on the mechanical behaviour of timber-buildings under lateral loads.
- 2015-present Member of COST Action FP1402 “Basis of structural timber design - from research to standards.
- 2014-present Teaching Assistant (tutoring, frontal lectures, exams) at the Department of Civil, Environmental and Mechanical Engineering of University of Trento for the courses "Structural Retrofit" for Master of Science in Civil Engineering and Architecture and Building Engineering.
- 2014 Part of working group of the Italian “ReLuis” Guidelines for the design, execution and control of timber structures.

- 2012-present Master thesis Co-Supervisor for the Master Graduation in Civil Engineering and Architecture and Building Engineering at University of Trento.
- 2012-present Speaker at more than 15 national and international conferences, seminars and professional courses on the subject of timber and structural engineering.

MOST SIGNIFICANT PUBLICATIONS

- 2016 M. Follesa, M. Fragiaco, D. Casagrande, R. Tomasi, M. Piazza, D. Vassallo, S. Rossi " The new version of Chapter 8 of Eurocode 8" in World Conference on Timber Engineering 2016, WCTE 2016, Wien, Austria., 2016
- 2016 D. Casagrande, A. Polastri, T. Sartori , C. Loss, M. Chiodega " Experimental campaign for the mechanical characterization of connection systems in the seismic design of timber buildings" in World Conference on Timber Engineering 2016, WCTE 2016, Wien, Austria, 2016.
- 2016 D. Casagrande, P. Grossi , R. Tomasi,, " Shake table tests on a full-scale timber frame building with gypsum fibre boards" in European Journal of Wood and Wood Products Structures and Buildings, Springer 2016
- 2016 Polastri A., Brandner R., Casagrande D., (2016), "Experimental analysis of a new connection system for CLT structures". Structures and Architecture: Concepts, Applications and Challenges - Proceedings of the 3rd International Conference on Structures and Architecture, ICS,A 2016
- 2016 T. Reynolds, D. Casagrande, R. Tomasi, "Comparison of multi-storey cross-laminated timber and timber frame buildings by in-situ modal analysis" in Construction and Building Materials Engineering, Elsevier, 2016
- 2016 S. Rossi, D. Casagrande, R. Tomasi, M. Piazza, "Seismic elastic analysis of light timber-frame multi-storey buildings: proposal of an iterative approach" in Construction and Building Materials Engineering, Elsevier, 2015 -in press
- 2015 D. Casagrande, S. Rossi, R. Tomasi, G. Mischi, "A predictive analytical model for the elasto-plastic behaviour of a light timber-frame shear-wall" in Construction and Building Materials Engineering, Elsevier, 2015
- 2015 R. Tomasi, D. Casagrande, P. Grossi , T. Sartori , " Shaking table tests on a 3-storey timber building within the European SERIES project" in Proceedings of the Institution of Civil Engineering – Structures and Buildings, ICE 2015
- 2015 D. Casagrande, S. Rossi , T. Sartori , R. Tomasi, "Proposal of an analytical procedure and a simplified numerical model for elastic response of single-storey timber shear-walls" in Construction and Building Materials Engineering, Elsevier,
- 2014 D.Casagrande, T.Sartori, R. Tomasi, "Capacity design approach for multi-storey timber-frame buildings" in International Network on Timber Engineering Research 2014, Bath, UK
- 2014 R. Tomasi, T. Sartori , D. Casagrande , M. Piazza, "Shaking table testing of a full scale prefabricated three-story timber framed building" in Journal of Earthquake Engineering, Taylor & Francis, 2014.
- 2014 D.Casagrande, M. Piazza ,A. Franciosi , F. Pederzoli, "Assessment of timber floor vibration performance: a case study in Italy" in World Conference on Timber Engineering 2014, WCTE 2014, Quebec, Canada.

Davide Casagrande