MASSIMO LATOUR

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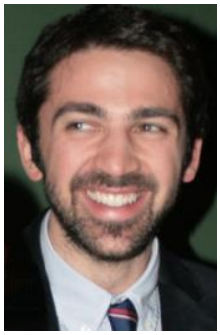

GENERAL INFORMATION

Massimo Latour started his studies at the University of Salerno in 2001 where he got the Bachelor and Master Degrees in September 2004 and October 2007 respectively. After the Master he won the selection for a Doctorate grant in Structural Engineering at University of Salerno where he got the PhD in 2011 with a thesis entitled "Theoretical and Experimental Analysis of Dissipative Beam-to-Column Joints in Moment Resisting Steel Frames". In the same year, he became a post-doctoral fellow at Salerno where he is currently working. He is heavily involved in experimental and theoretical research. His contribution to the scientific community is demonstrated by the works published in peer-reviewed journals and in national and international conferences. His research activity mainly deals with seismic design, connections behavior, wooden and steel structures, finite element modeling and the development of strategies for supplemental damping to be applied in seismic zone. Lately, he has started to teach on contract in the courses of structural design at the University of Salerno.

RESEARCH ACTIVITY

The research activity in the last years has been mainly involved the following topics:

- Experimental tests on materials
- Experimental Testing on full-scale sub-assemblages
- Seismic Design of Structures
- Theoretical and Experimental Behavior of Steel Joints
- Seismic Analysis of Wooden Structures
- Analytical and FEM modeling of Hybrid Steel Truss composite beams
- Development and Study of Energy Dissipation Devices
- Analysis of the Behavior of Friction materials under Loadings
- Innovation and Rehabilitation of Existing Structures
- Study of the Seismic Behavior of Masonry Structures
- Analysis of Connections for fiber glass composite structures

Participation in national and international research projects

National projects

National project: MURST (ex 60%) – year 2008 – Modellazione del comportamento ciclico di nodi trave-colonna in acciaio. (Cyclic modelling of steel beam-to-column joints). ***Effective group member***

Coordinator: Prof. Gianvittorio Rizzano

National project: FARB (EX 60%) – years 2007-2009 – Modellazione del comportamento ciclico di nodi trave-colonna in acciaio. (Cyclic modelling of steel beam-to-column joints). ***Effective group member***

Coordinator: Prof. Gianvittorio Rizzano

National project: FARB 2010 – years 2009-2011 – Modellazione e progettazione di T-stub dissipativi per nodi trave-colonna e dispositivi isteretici. (Design and modelling of dissipative T-stubs for beam-to-column joints and hysteretic dampers). ***Effective group member***

Coordinator: Prof. Gianvittorio Rizzano

National project: FARB 2011 – year 2012-2013 – Modellazione e progettazione di nodi di base in strutture in acciaio (Design and modelling of column base in steel structures). ***Effective group member***

Coordinator: Prof. Gianvittorio Rizzano

National project: DPC Reluis – Task 2.1 – years 2010-2013 "Criteri di Progettazione e Metodologie per la Previsione del Comportamento Ultimo dei Collegamenti Trave-Colonna e Colonna-Fondazione sotto Azioni Sismiche". (Design criteria and methodologies for the prediction of the ultimate behaviour of beam-to-column and column-base joints under seismic actions). ***Effective group member***

Local coordinator: Prof. Vincenzo Piluso

National project: DPC Reluis – years 2014-2016 "Regole di progetto per la pre-qualificazione di nodi trave-colonna in acciaio a completo e parziale ripristino di resistenza" (Design rules for pre-qualification of partial and full-strength beam-to-column steel joints). ***Effective group member***

Local coordinator: Prof. Vincenzo Piluso

International projects

European project (RFCS 2014): FREEDAM PROJECT – years 2015-2018 "FREE from DAMage Steel Connection" (Development of an innovative technology leading to no damage steel structures). ***Coordinator of task 1.1 and task 2.1***

Research Group: *University of Salerno (Italy) + University of Coimbra (Portugal) + University of Liège (Belge) + University of Naples (Italy) + Fip Industrial (Italy) + O Feliz Metalomecanica (Portugal)*

Coordinator of the project: Prof. Vincenzo Piluso

European project (RFCS 2017): EQUALJOINT-plus – years 2017-2020 "Valorisation of knowledge for European pre-QUALified steel JOINTS".

Research Group: *Università degli Studi di Napoli Federico II (UNINA) + Arcelormittal Belval & Differdange SA (AM) + Universite de Liege (Ulg) + Universitatea Politehnica Timisoara (UPT) + Universidade de Coimbra (UC) + Convention Europeenne de la Construction Metallique (ECCS) + Universita degli Studi di Salerno (UNISA) + Imperial College of Science Technology and Medicine (IC) + Centre Technique Industriel de la Construction Metallique (CTICM) + National Technical University of Athens (NTUA) + Ceske Vysoke Uceni Technicke V Praze (CVUT) + Technische Universiteit Delft (TUD) + Univerza V Ljubljani (UL) +Universitet Po Architektura Stroitelstvo I Geodezija (UASG) + Universitat Politecnica de Catalunya (UPC) + Rheinisch-Westfaelische Technische Hochschule Aachen (RWTHA)*

Coordinator of the project: Prof. Raffaele Landolfo

EXTERNALLY REQUESTED EXPERIMENTAL ACTIVITIES

- ***Experimental analysis of welded sub-assemblages of hybrid steel trussed beams.*** Execution of 97 tests on welded steel specimens to evaluate the fatigue behaviour with emphasis on the cyclic ductility. Client: Consorzio Strutture Italia srl. Working group: Prof. Gianvittorio Rizzano, Eng. Massimo Latour, Dr. Sabatino de Simone. (deliverables: test report) – ***Year 2013***
- ***Four-point bending tests*** on a steel decking of "H55" type. Execution of seven tests to evaluate the shear slip resistance of concrete on steel according to Eurocode 4. Client: MOVI.SID. derivati siderurgici S.p.A..Working group: Prof. Gianvittorio Rizzano, Eng. Massimo Latour, Dr. Vincenzo Sorrentino. (deliverables: test report) – ***Year 2013***
- ***Four-point bending tests*** on a steel decking of "H55" type. Execution of twenty tests and development of a new design formulation for the definition of the slip resistance of steel on concrete. Client: MOVI.SID. derivati siderurgici S.p.A..Working group: Prof. Gianvittorio Rizzano, Eng. Massimo Latour, Dr. Vincenzo Sorrentino. (deliverables: test report, technical report) – ***Year 2015***
- ***Experimental tests on T-stubs undergoing large deformation*** Client: University College of London (UCL). Working group: Eng. Massimo Latour, Prof. Gianvittorio Rizzano, Prof PJ Tan, Dr. Anna Chiara Faralli. (deliverables: test report, technical report, experimental testing, FE analysis) – ***Year 2017***

REVIEWER ACTIVITY

Active reviewer for the following journals:

- Journal of Earthquake Engineering;
- Journal of Constructional steel research;
- Steel and Composite Structures, An International Journal;
- Steel and Composite Structures;
- Journal of Zhejiang University;
- The Open Civil Engineering Journal;
- American Journal of Civil Engineering;
- Construction and Building Materials;
- Bulletin of Earthquake Engineering;

EDITORIAL BOARD MEMBER

Effective member of the editorial board of:

- The Open Civil Engineering Journal (Bentham, indexed in SCOPUS)
- American Journal of Civil Engineering (Science Publishing group);

TEACHING ACTIVITY

Teaching activity has been mainly developed at the University of Salerno assisting several courses of Structural Design. In particular, many theoretical and practical lessons have been performed in the courses of:

- Structural Rehabilitation – Master in Civil Engineering (University of Salerno). (Prof. Gianvittorio Rizzano). Period: every semester from 2008 to 2015.
- Structural Design – Bachelor in Civil Engineering (University of Salerno). (Prof. Gianvittorio Rizzano). Period: every year for one semester from 2009 to 2015.
- Special Structures (wooden structures) – Master in Civil Engineering (University of Salerno) (Dr. Rosario Montuori). Period: one semester in 2009.
- Design of Steel Bridges – International Master program "Design of steel structures in smart cities" (University of Naples) (Prof. Gianvittorio Rizzano). Period: half semester in 2014.

Within the mentioned courses, tutoring activity for the students and assistance to the final exams have also been performed. In the academic year 2016-2017 teaching activity has been assigned on contract for the class of structural design,

INVITED LECTURES

- Adeguamento sismico di edifici in muratura con tecniche tradizionali ed innovative. (Seismic refurbishment of masonry structures with classical and new techniques). – within the course "Vulnerability Analysis and design of existing buildings". Lectures for designers, Salerno (SA), Italy – 11/04/2011
- Tipologia costruttiva e fattore di struttura. Progetto in zona sismica.(Structural typology and behaviour factor. Seismic design.) – within the course "New fronteers for Glu-Lam in constructions.". Organized by Rubner Holzbau, Salerno (SA), Italy 8/11/2013
- Elementi per il progetto e il dimensionamento secondo le NTC. – (Elements for design of structures according to the national building code). within the course "Glu-Lam: design, technique and modern challenges Rubner Holzbau conference, Mirabella Eclano (AV), Italy 6/06/2014

TUTOR ACTIVITY - SELECTED MASTER THESES

- Il ruolo dei collegamenti tra pannelli di tompagno e struttura nella risposta sismica di edifici industriali monopiano – (The role of connections in the response of pre-cast concrete industrial buildings) – Student: Vito Piemonte - 110/110 cum laude (*Academic year 2013/2014*)
- Previsione del comportamento ultimo di T-stub con 4 bulloni per fila: analisi teorico-sperimentale (Prediction of the ultimate behaviour of T-stubs with four bolts in one row: theoretical and experimental analysis) – Student: Stefania Trezza - 110/110 (*Academic year 2012/2013*)
- L'impiego di collegamenti dissipativi nella progettazione di edifici sismo-resistenti con pannelli portanti in legno. (The application of dissipative connections in seismic-resistant wooden structures) – Student: Gianluca Terrano – 110/110 cum laude. (*Academic year 2011/2012*)
- Studio dei meccanismi di trasferimento degli sforzi tra fondello in acciaio e calcestruzzo nelle travi

prefabbricate reticolari miste – (Study of the interaction mechanisms between the steel plank and the concrete in hybrid steel trussed concrete beams) – Student: Gianluca Desiderio - 110/110 cum laude (*Academic year 2010/2011*) – ***awarded*** from the scientific committee of the national association for the REP patent

- Influenza della variabilità dei materiali nella progettazione a completo ripristino di resistenza dei nodi di base in acciaio – (Influence of the random material variability effects in the full-strength design of steel column-base plates) – Student: Sabatino De Simone – 106/110 (*Academic year 2009/2010*)
- Analisi Teorico-sperimentale di nodi flangiati di base di strutture in acciaio – (Theoretical and experimental analysis of base plate joints in steel structures) – Student: Vincenzo Sorrentino – 110/110 (Academic year 2008/2009)