

## European curriculum vitae

# EUROPEAN CURRICULUM VITAE

## PERSONAL INFORMATION

Name **LUCA FACCONI**  
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Nationality Italian  
Date of birth 15 MARCH 1981

## WORK EXPERIENCE

- Dates June 2012 – November 2017
- Name and address of employer University of Brescia – Department of Civil, Environmental, Architectural Engineering and Mathematics  
Civil Engineering  
Post-Doctoral Fellow
- Type of business or sector Testing materials – Testing structures made of Concrete, Masonry, Fiber Reinforced Concrete, Steel – Non-linear analyses of Masonry and Concrete Structures. Teaching.
- Occupation or position held
- Main activities and responsibilities

## RESEARCH EXPERIENCE

- Dates June 2012 – November 2017
- Name and address of employer University of Brescia – Department of Civil, Environmental, Architectural Engineering and Mathematics  
Civil Engineering  
Post-Doctoral Fellow
- Type of business or sector Testing materials – Testing structures made of Concrete, Masonry, Fiber Reinforced Concrete, Steel – Non-linear analyses of Masonry and Concrete Structures. In addition to the previous scientific activities, the activities include teaching.
- Occupation or position held
- Main activities and responsibilities

## EDUCATION AND TRAINING

- Dates (from – to) November 2008 – June 2012
- Name and type of organisation providing education and training University of Brescia – Department of Civil, Environmental, Architectural Engineering and Mathematics
- Principal subjects/occupational skills covered Numerical modeling of masonry and concrete structures.  
Testing full scale Fiber Reinforced Concrete and Masonry elements  
Development of a new retrofitting technique for masonry structures based on the application of a mortar coating reinforced only with steel fibers (Steel Fiber Reinforced Mortar)  
Doctoral degree in “Structural Rehabilitation of Historical and Modern Buildings”
- Title of qualification awarded
- Level in national classification

(if appropriate)

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
- Level in national classification (if appropriate)

September 2010 – May 2011  
University of Toronto – Department of Civil Engineering

Numerical simulation of masonry structures.  
Development of a new analytical model for the simulation of Unreinforced Masonry structures.  
Doctoral degree in “Structural Rehabilitation of Historical and Modern Buildings”

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
- Level in national classification (if appropriate)

March 2005 – May 2008  
University of Brescia – Department of Civil, Environmental, Architectural Engineering and Mathematics  
Structural Engineering

Master degree in Civil Engineering – Final mark: 110/110 cum laude

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
- Level in national classification (if appropriate)

September 2000 – March 2005  
University of Brescia – Department of Civil, Environmental, Architectural Engineering and Mathematics  
Structural Engineering

Bachelor degree in Civil Engineering – Final mark: 100/110

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
- Level in national classification (if appropriate)

September 1995 – June 2000  
Istituto tecnico industriale statale “B. Castelli”

Electrotechnics, Electronics, Automation

Diploma in Electrotechnical and Automation – Final mark: 100/100

## **PERSONAL SKILLS AND COMPETENCES**

*Acquired in the course of life and career  
but not necessarily covered by formal  
certificates and diplomas.*

### **MOTHER TONGUE**

**ITALIAN**

### **OTHER LANGUAGES**

- Reading skills
- Writing skills
- Verbal skills

**ENGLISH**  
ADVANCED  
ADVANCED  
ADVANCED

### **SOCIAL SKILLS**

WORK EFFECTIVELY BOTH AS A TEAM MEMBER AND INDEPENDENTLY

AND COMPETENCES	GOOD COMMUNICATION AND IT SKILLS
TECHNICAL SKILLS AND COMPETENCES	EXPERIENCED IN DESIGN REINFORCED CONCRETE, FIBER REINFORCED CONCRETE, STEEL AND MASONRY STRUCTURES REHABILITATION AND RETROFITTING OF EXISTENT CONCRETE AND MASONRY BUILDINGS SEISMIC DESIGN OF CONCRETE AND MASONRY STRUCTURES DAILY USER NON LINEAR FINITE ELEMENT ANALYSIS OF CONCRETE AND MASONRY STRUCTURES USER OF PROGRAMMING LANGUAGES (MATLAB, FORTRAN, VISUAL BASIC) DAILY USER OF OFFICE™ PROGRAMS AND DRAWING PROGRAMS (AUTOCAD) EXPERIENCED IN PROBLEM SOLVING
DRIVING LICENCE(S)	Driving license type B
<b>ANNEXES</b>	LIST OF THE SCIENTIFIC PUBLICATIONS AND SUPERVISED MASTER THESES

## Scientific Publications

- Facconi L, Minelli F, Plizzari G. Designing elevated slabs made with Fibre Reinforced Concrete. Atti del 21° CONGRESSO CTE E GIORNATE AICAP - ITALIAN CONCRETE DAYS, Roma, 27-28 Ottobre, 2016. ISBN: 978-88-99916-02-2
- Facconi L, Minelli F, Giuriani E. In-plane cyclic tests on hollow clay brick masonry infills retrofitted by glass fiber mesh reinforced mortar coating. Brick and Block Masonry – Trends, Innovations and Challenges – Modena, da Porto & Valluzzi (Eds), 2016.
- Facconi L, Minelli F. Verification of structural elements made of FRC only: A critical discussion and proposal of a novel analytical method. Volume 131, 15 January 2017, Pages 530–541
- Facconi L, Minelli F, Plizzari G. Steel fiber reinforced self-compacting concrete thin slabs – experimental study and verification against Model Code 2010 provisions. Eng Struct 2016;122:226–37.
- Barragán B., Facconi L, Laurence O., Plizzari G. (2014), " Design of glass fiber reinforced concrete floors according to the fib Model Code 2010 ", FRC 2014 Joint ACI-fib International Workshop, Proceedings of FRC 2014 Joint ACI-fib International Workshop on Fibre Reinforced Concrete: from design to Structural Applications, Montreal, Canada, 24-25 July 2014, pp. 211-223.
- Facconi L, Minelli F, Plizzari G, Pasetto A. Precast fibre-reinforced self compacting concrete slabs. In: Massicotte B, Charron J-P, Plizzari G, Mobasher B, editors, Fibre reinforced concrete: from design to structural applications - FRC 2014: ACI-fib International Workshop. FIB Bulletin 79 – ACI SP-310; 2016, p. 223–38.
- Facconi, L., Conforti, A., Minelli, F., Plizzari, G., "Improving Shear Strength of Unreinforced Masonry Walls by Nano-Reinforced Fibrous Mortar Coating", Materials and Structures, pp 1-18, 2014.
- Facconi, L., Plizzari, G and Vecchio, F.J. "Disturbed Stress Field Model for Unreinforced Masonry", J Struct Eng 140(4), 04013085, 2014. doi: 10.1061/(ASCE)ST.1943-541X.0000906.
- Facconi, L., Conforti, A., Minelli, F., Plizzari, G., "Strengthening and Repairing Unreinforced Masonry Walls by Nano-Composite Steel Fiber Reinforced Mortar Overlays". In: Proceedings of the conference "PROTECT2013", 26-27, August, Mysore, India, 2013.
- Facconi, L., "Fiber Reinforced Concrete and Mortar for Enhanced Structural Elements and Repair of Masonry Walls", Ph.D. Thesis, Department of Civil Engineering, University of Brescia, Aracne Editore, Maggio, 2014. ISBN 978-88-548-7010-9
- Facconi, L., Conforti, A., Minelli, F., Plizzari, G., "Shear strength improvement of unreinforced masonry walls by means of High Performance steel fibre reinforced mortar", Proceedings of the 8th RILEM International Symposium on Fibre Reinforced Concrete, BEFIB 2012, Guimarães, Portugal, 19-21 September 2012, 12pp. ISBN 9782351581322.
- Facconi, L., "Steel Fibre Reinforced Concrete for Precast Structures: nonlinear F.E. analyses for reinforcement optimization", 8th fib PhD Symposium in Kgs. Lyngby, Denmark, 8 June, 2010.
- Facconi, L., Plizzari, G., Steel Fibre Reinforced Concrete in precast structures: non-linear finite element analyses for reinforcement optimization", ACI Italy Chapter, 1st Workshop: "The new boundaries of structural concrete", 22-23 of April, 2010.

- Facconi, L., Plizzari, G.A., “Elementi prefabbricati in calcestruzzo fibrorinforzato con armatura ottimizzata”, ENCO journal, Anno XV, Numero 49, 2010

## Supervised Master Theses

- Mario Seriola: “Studio sperimentale e numerico su innovativa connessione in acciaio sismoresistente per edifici residenziali intelaiati in calcestruzzo armato”. Relatore: Prof. Fausto Minelli. Correlatore: Luca Facconi – A.A. 2015/2016.
- Stefania Zuccolo: “Studio sperimentale e numerico su cabina monoblocco prefabbricata con calcestruzzi autocompattanti fibrorinforzati”. Relatore: Prof. Giovanni Plizzari. Correlatori: Prof. Fausto Minelli, Luca Facconi – A.A. 2014/2015.
- Corrado Vecchi: “Teoria dei campi compressi modificata per il calcestruzzo fibrorinforzato: studio sperimentale e analitico”, Università degli Studi di Brescia, A.A. 2013/2014. Relatore: Prof. Fausto Minelli. Correlatori: Luca Facconi, Prof. Giovanni Plizzari.
- Paolo Bedani: “Modellazione numerica di edifici in muratura mediante metodo semplificato”, Università degli Studi di Brescia, A.A. 2013/2014. Relatore: Prof. Fausto Minelli. Correlatori: Luca Facconi, Prof. Giovanni Plizzari.
- Davide Bregoli, Michele Corsi: “Rinforzo sismico di edifici intelaiati in calcestruzzo con intonaci armati: studio sperimentale e numerico”, Università degli Studi di Brescia, A.A. 2013/2014. Relatore: Prof. Fausto Minelli. Correlatori: Prof. Ezio Giuriani, Luca Facconi.
- Francesco Locatelli: “Studio sperimentale e numerico su elementi piastra prefabbricati con calcestruzzi autocompattanti fibrorinforzati”, Università degli Studi di Brescia, A.A. 2013/2014. Relatore: Prof. Ing Giovanni Plizzari. Correlatori: Prof. Fausto Minelli, Luca Facconi.
- Sara Silvana Lucchini, Daniele Mangili: “Studio sperimentale e numerico sul comportamento sismico di pareti in muratura rinforzate con intonaci innovativi”, Università degli Studi di Brescia, A.A. 2013/2014. Relatore: Prof. Giovanni Plizzari. Correlatori: Prof. Fausto Minelli, Luca Facconi.
- Albrici Silvia, Facchinetti Michele: “Studio sperimentale e numerico su pareti murarie rinforzate con intonaci strutturali innovativi”, Università degli Studi di Brescia, A.A. 2012/2013. Relatore: Prof. Giovanni Plizzari. Correlatori: Fausto Minelli, Luca Facconi.
- Fabio Archetti, Sara Soresina, : “Rinforzo sismico di edifici intelaiati in c.a.: studio sperimentale e analitico”, Università degli Studi di Brescia, A.A. 2012/2013. Relatore: Prof. Ezio Giuriani. Correlatori: Fausto Minelli, Luca Facconi.
- Mauro Arici, “Nuove soluzioni tecnologiche per strutture prefabbricate in calcestruzzo”, Università degli Studi di Brescia, A.A. 2012/2013. Relatore: Fausto Minelli. Correlatori: Ing. Giovanni Bono, Luca Facconi, Maria Grazia Pilotelli.
- Michele Moser, “Prove sperimentali a taglio puro su materiali fragili”, Università degli Studi di Brescia, A.A. 2011/2012. Relatore: Prof. Fausto Minelli. Correlatori: Luca Facconi, Prof. Giovanni Plizzari.
- Davide Diotti, Paolo Giacomini, “La flessione trasversale in elementi strutturali fibrorinforzati a parete sottile”, Università degli Studi di Brescia, A.A. 2011/2012. Relatore

- Marta Pagani, Lucia Tinti, “Studio sperimentale di pareti in muratura rinforzate mediante l’impiego di malte fibrorinforzate a base di Allumina”, Università degli Studi di Brescia, A.A. 2011/2012. Relatore: Prof. Giovanni Plizzari. Correlatori: Fausto Minelli, Luca Facconi.
- Diego Spada, “Studio sperimentale-numerico su cabine elettriche prefabbricate realizzate in calcestruzzo fibrorinforzato”, Università degli Studi di Brescia, A.A. 2011/2012. Relatore: Prof. Giovanni Plizzari. Correlatori: Fausto Minelli, Luca Facconi.
- Marta Vacchelli, “Rinforzo strutturale di pareti in muratura mediante l’impiego di malte fibrorinforzate: studio sperimentale e analitico”, Università degli Studi di Brescia, A.A. 2011/2012. Relatore: Prof. Giovanni Plizzari. Correlatori: Fausto Minelli, Luca Facconi
- Annalisa Raimondi, “Rinforzo strutturale di pareti in muratura mediante l’impiego di malte fibrorinforzate”, Università degli Studi di Brescia, A.A. 2011/2012. Relatore: Prof. Giovanni Plizzari. Correlatori: Fausto Minelli, Luca Facconi, Antonio Conforti.
- Piersevero Trenzani, “Proprietà a frattura di calcestruzzi rinforzati con fibre d’acciaio: dallo studio del materiale alla risposta strutturale”, Università degli Studi di Brescia, A.A. 2010/2011. Relatore: Prof. Giovanni Plizzari. Correlatori: Luca Cominoli, Luca Facconi.