

PERSONAL INFORMATION



Luciana Restuccia

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Sex Female | Nationality Italian

Consigliere – Board Member
FOIT (Fondazione dell'Ordine degli Ingegneri della Provincia di Torino)

ROLE PROFESSION **Assistant Professor in Structural Mechanics**

Politecnico di Torino, Department of Structural, Building and Geotechnical Engineering (DISEG)

WORK EXPERIENCE

From 16/06/2021 – to today

Assistant Professor in Structural Mechanics (RTD-b)

Politecnico di Torino

- Research activity: (1) Phase Change Material (PCM) from waste for the construction industry; (2) 3D printing of cement-based materials; (3) Safety conditions of the viaducts; (4) Anti-seismic safety of existing structures; (5) Innovative anti-seismic technologies; (6) Experimentation and mechanical characterization of new cement-based composite materials; (7) Study of innovative materials for interventions on existing buildings.
- Scientific responsible of the project "Feasibility study for the structural rehabilitation of the former RAI building located in Turin - Via Cernaia n. 33". Contract amount: 126.610,00 €.
- Scientific responsible of "Verification of the system adopted by the motorway concessionaires of the ASTM S.p.A. group for the evaluation of safety and for the validation of the annual maintenance programs of the bridges and viaducts they manage". Contract amount: 55.100,00 €

ICAR/08 - D.M.30102015 - Ingegneria civile e Architettura

From 16/02/2018 to 15/06/2021

Assistant Professor in Structural Mechanics (RTD-a)

Politecnico di Torino

- Research activity: (1) Safety conditions of the viaducts; (2) Anti-seismic safety of existing structures; (3) Innovative anti-seismic technologies; (4) Experimentation and mechanical characterization of new cement-based composite materials; (5) Study of innovative materials for interventions on existing buildings.
- Participation on "RECODE: Recycling carbon dioxide in the cement industry to produce added-value additives: a step towards a CO2 circular economy" (Grant Agreement no. 768583, HORIZON 2020).
- Participation on "DiPreTreat - Diagnosis, Prognosis and Treatment of technological pathology affecting European Cities" - EIT Digital project (EU).
- Scientific responsible of the Research Project "Preparation of technical tests and theoretical-experimental validation for the study of the durability of concrete constructions, with the use of water-based crystallizing liquid products, used as additives in the production of concrete and for spray application on existing structures ", in collaboration with SUPERSHIELD ITALIA SRL. Contract amount: € 141,000.00.

ICAR/08 - D.M.30102015 - Ingegneria civile e Architettura

From 01/05/2017 to 31/07/2017

Post-Doc Visiting Research Scholar @ MIT (Massachusetts Institute of Technology)

Department of Civil and Environmental Engineering, Concrete Sustainability Hub.

- Research activity: study of the mechanical properties of innovative agro-food-based composites by means of non-destructive tests (Micro/Nanoindentation techniques, Scratch Test). Analysis of elastic and plastic phenomena deriving from indentation tests in order to evaluate the mechanical behavior and the fracture of cement-based materials.

EDUCATION AND TRAINING

From 15/03/2013 to 26/05/2016

PHD IN STRUCTURE ENGINEERING

Politecnico di Torino

- Research activity: study of agri-food waste and C&D as fillers in innovative and sustainable cementitious composites

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

- English. Very good knowledge of understanding and speech, good for written production. Education during compulsory schooling and through language courses. IELTS mark 6.5.
- French. Basic knowledge regarding understanding and speaking (education during compulsory schooling).

ADDITIONAL INFORMATIONS**Awards**

- Research Quality Award (Politecnico di Torino) 2016. Award of 2.500 €. Ph.D. Thesis: "Re-think, Re-use: agro-food and C&D waste for high performance sustainable cementitious composites".

Editorial activity

- Members of editorial board of "Fracture and Structural Integrity (from 2017)

Grants

- MITOR Funding (MIT Massachusetts Institute of Technology – Polytechnic of Turin) 2015. Grant of 10.000 \$. Research project: "Nanoparticles From Food Waste: The Future Green Concrete In Smart Cities";

Patents

- Patent for industrial invention No.102017000089647. Title: "System to prevent the collapse of a building, in particular a prefabricated reinforced concrete structure, due to the loss of support of at least one horizontal structural element and relative method" (G.A. Ferro, L. Restuccia, A. Reggio).

Main lines of Research activity:

- ERC_PE8_3. Civil engineering, architecture, maritime / hydraulic engineering, geotechnics, waste treatment: Rehabilitation and energy retrofitting of existing buildings through structural exoskeletons; Anti-seismic retrofit techniques for vernacular buildings in Adobe; Safety assessment of existing bridges and viaducts.
- ERC_PE8_11. Sustainable design (for recycling, for environment, eco-design: Waste materials (waste from the agri-food chain; C&D - Construction and Demolition Waste) for innovative high-performance cementitious composites; rheology and mix-design of innovative cement-based materials; 3D printing of lightweight foamed concrete; Mechanical properties in relation to the study of the durability of concrete constructions; Cement matrix materials with reduced CO2 impact; Phase change materials from agricultural waste for building components.

DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE (art. 46 e 47 D.P.R. 445/2000)

La sottoscritta Luciana Restuccia, consapevole che le dichiarazioni false comportano l'applicazione delle sanzioni penali previste dall'art. 76 del D.P.R. 445/2000, dichiara che le informazioni riportate nel CV corrispondono a verità.

Data 17/05/2023

Firma

**PRIVACY**

La sottoscritta Luciana Restuccia autorizza il trattamento dei dati personali ai sensi del Regolamento UE n. 679/2016 GDPR.

Data 17/05/2023

Firma

