



Daniele Zahedin Labaf

Date of birth: 05/02/1992 | **Gender:** Male | **Phone number:**

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Address: Via Pietro da Cortona 8 , 00196, Roma, Italy (Home)

EDUCATION AND TRAINING

11/2018 – 05/2022 Rome, Italy

PHD IN STRUCTURAL AND GEOTECHNICAL ENGINEERING Dipartimento di Ingegneria Strutturale e Geotecnica - Università La Sapienza

Research Interests

- Dynamics of Structures
- Earthquake Engineering
- Structural Health Monitoring
- Structural Mechanics
- Mechanics of Solids and Materials

Research Topics

- Risk assessment and seismic performance mitigation of storage tanks in industrial facilities
- Vibration passive control of structures through base isolation, Tuned Mass Damper systems, equipped with Inerter (TMDI) or providing Pounding (PTMD)

Research Projects

- Studio del sistema innovativo TMDI per il controllo della risposta sismica di serbatoi isolati alla base, Progetti per Avvio alla Ricerca - Tipo 1, Bando 2019.

Thesis

- **Seismic response mitigation of cylindrical storage tanks by innovative protection systems**

Teaching Activity

- Support to the activities of the Course **Scienza delle Costruzioni (ICAR/08)**, Corso di Laurea Magistrale a Ciclo Unico in Ingegneria Edile- Architettura (LM-4 - DM 270/04), Prof. Eng. Maurizio De Angelis

Address Via Eudossiana, 18, 00184, Rome, Italy |

Website https://phd.uniroma1.it/web/INGEGNERIA-STRUTTURALE-E-GEOTECNICA_nD3515_IT.aspx |

Level in EQF EQF level 8

01/2015 – 10/2018 Rome, Italy

MASTER DEGREE IN CIVIL ENGINEERING (LM-23 - DM 270/04) Sapienza University of Rome- Faculty of Civil and Industrial Engineering

General

- Structural Engineering
- Dynamics of Structures

Master Thesis: Controllo delle vibrazioni di sistemi a molti gradi di libertà isolati alla base e muniti di Tuned Mass Damper Inerter

Supervisor: Prof. Eng. Maurizio De Angelis

Final Mark: 110/110

Main Structural Exams:

- Teoria delle Strutture I, Prof. Eng. Daniela Addessi, 30 cum laude/30
- Dinamica delle Strutture, Prof. Eng. Maurizio De Angelis, 30/30
- Teoria delle Strutture II, Prof. Eng. Daniela Addessi, 30/30
- Principi di Meccanica Strutturale, Prof. Eng. Achille Paolone, 30/30
- Progetto di Strutture I, Prof. Eng. Nicola Nisticò, 30/30

- Analisi dei Dissesti e Restauro Strutturale, Prof. Eng. Domenico Liberatore, 30 cum laude/30
- Conservazione e Restauro Strutturale dei Monumenti e dell'Edilizia Storica, Prof. Eng. Domenico Liberatore, 30 cum laude/30
- Costruzioni in Zona Sismica, Prof. Eng. Rosario Gigliotti, 30/30
- Monitoraggio Geomatico, Prof. Maria Antonietta Marsella, 30/30

Address Via Eudossiana, 18, 00184, Rome, Italy | **Website** www.ing.uniroma1.it | **Level in EQF** EQF level 7

09/2011 – 12/2014 Rome, Italy

BACHELOR DEGREE IN CIVIL ENGINEERING (L-7 - DM 270/04) Sapienza University of Rome-
Faculty of Civil and Industrial Engineering

Final Mark: 108/110

Address Via Eudossiana, 18, 00184, Rome, Italy | **Website** www.ing.uniroma1.it | **Level in EQF** EQF level 6

09/2006 – 07/2011 Rome, Italy

HIGH SCHOOL DIPLOMA Liceo Scientifico Statale John Fitzgerald Kennedy

General

- Scientific studies
- Final Mark: 100/100

Address Via Nicola Fabrizi, 7, 00153, Rome, Italy | **Website** www.liceokennedy.it | **Level in EQF** EQF level 4

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

MATLAB&Simulink | SAP 2000 | AutoCAD | Microsoft Office

ADDITIONAL INFORMATION

PUBLICATIONS

MULTI-OBJECTIVE OPTIMAL DESIGN AND SEISMIC ASSESSMENT OF AN INERTER-BASED HYBRID CONTROL SYSTEM FOR STORAGE TANKS

– 2023

Zahedin Labaf D, De Angelis M, Basili M. Bulletin of Earthquake Engineering, 2023, 21 (3),1481-1507

VIBRATION CONTROL OF STEEL LIQUID STORAGE TANKS EQUIPPED WITH INERTER-BASED ISOLATION SYSTEMS

– 2020

Zahedin Labaf D, De Angelis M, Pietrosanti D. Proceedings of the XI International Conference on Structural Dynamics, EURO DYN 2020, European Association for Structural Dynamics, Papadrakakis M, Fragiadakis M, Papadimitriou C (Eds.), Vol. 1, 1556-1567.

NETWORKS AND MEMBERSHIPS

Memberships Member of Ordine degli Ingegneri della Provincia di Roma, Rome (Italy)

- Civil and Environmental Engineering, Section A, n° 38095

DRIVING LICENCE

Driving Licence: A1

Driving Licence: B

COURSES

Courses

- July 2020: **Direct** and **Inverse** Dynamic Problems in **Random** Vibrations, Prof. Eng. Vincenzo Gattulli, Sapienza University of Rome, Prof. Luca Caracoglia, Northeastern University
 - May 2020: Corso Costruzioni **Esistenti** in **Muratura** Marcello Ciampoli, Coordinator Prof. Eng. Franco Bontempi
 - Spring 2020: Analisi e Riduzione del **Rischio sismico** delle Costruzioni, Prof. Eng. Rosario Gigliotti, Sapienza University of Rome
 - February 2020: Modeling of **Offshore** Structures, Dr. Eng. Nicholas Fantuzzi, Alma Mater University of Bologna
 - February 2020: **Continuum** Mechanics and Thermodynamics, Prof. Eng. Antonino Favata, Sapienza University of Rome
 - Spring 2019: **Nonlinear** Analysis of Structures, Prof. Eng. Walter Lacarbonara, Sapienza University of Rome
 - April 2019: Dynamics of structures: **Linear** and **non linear** dynamic analysis of structures, Prof. Eng. Maurizio De Angelis, Sapienza University of Rome
 - May 2018: Corso di Dinamica **Sperimentale** in Laboratorio e in Situ, Prof. Eng. Maurizio De Angelis.
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