

**PERSONAL  
INFORMATION**

**Nicola CHIEFFO**



**STUDIES APPLIED FOR**

Ph.D student,  
**Politehnica University of Timisoara, Department of Civil Engineering**

**WORK EXPERIENCE**

**Academic Year 2019/2020**

University of Naples "Federico II" Faculty of Engineering  
ReLUIS - DPC 2019/2021 Project: *Risk Maps and Seismic Damage Scenarios (MARS)* in collaboration with University of Trieste.  
Coordinator WP: Prof. Eng. C. Amadio

University of Naples "Federico II" Faculty of Engineering  
ReLUIS - DPC 2019/2021 Project: *Inventory of existing structural and building typologies - CARTIS*.  
Coordinator WP: Prof. Eng. A. Formisano

**Academic Year 2018**

University of Naples "Federico II" Faculty of Engineering, Research Project in collaboration with CRdC Tecnology SCARL " *FEM analysis on the prototype system of reticular beams REP*"  
Coordinator: Prof. Eng. A. Formisano.

Visiting Period at University of Minho, Portugal (05/02/2018 to 05/05/2018)  
Supervisor: Prof. Eng. P. B. Lourenço  
Seismic vulnerability assessment of historical masonry building by means Non-Linear Time History Analysis  
- Structural Analysis  
Sector Civil Engineering

**Academic Year 2017**

Politehnica University of Timisoara, Ph.D student

**Academic Year 2016**

Pegaso Telematic University Faculty of Engineering, Collaboration to the teaching the course "Structural Engineering" (Prof. Eng. F. Fabbroncino).

**Academic Year 2015**

University of Naples "Federico II" Faculty of Engineering, Collaboration to the teaching the course "Structural Engineering" (Prof. Eng. A. Formisano).

**January – July 2015**

University of Naples "Federico II" Faculty of Architecture, Research Studies at the L.U.P.T - P.L.INIV.S Studies Center  
Evaluation of volcanic and seismic vulnerability of r.c buildings in the Santorini Island  
▪ Structural Analysis  
Sector Civil Engineering



- May 2015** University of Naples "Federico II" Faculty of Architecture, Convention between the Italian Surveyors Foundation and the Centre for Studies P.L.INIV.S – L.U.P.T “University of Naples Federico II”  
Professional skills of surveyors in the field of structural design
- Structural Analysis
- Sector Civil Engineering
- April 2015** Collaboration with P.L.INIV.S Studies Center of the University of Naples “Federico II”, Retrofitting project of the headquarters of the Italian Naval League of Naples in local co-use with the Italian Navy.
- Structural Analysis
- Sector Civil Engineering
- November 2014** University of Naples "Federico II" Faculty of Engineering  
Participation in the ReLUIIS - DPC 2014/2018 Project: masonry structures.
- Structural Analysis
- Sector Civil Engineering
- May – July 2015** Collaboration with Prof. Eng. Antonio Formisano  
Reconstruction and damage repair of the buildings affected by the earthquake, Cento (FE).
- Structural Analysis
- Sector Civil Engineering
- April – May 2014** Collaboration with Prof. Eng. Antonio Formisano  
Construction of a pedestrian walkway in steel structure.
- Structural Analysis
- Sector Civil Engineering
- March - December 2013** Collaboration with Prof. Eng. Antonio Formisano  
Energy improvement of housing units in the historic centers as part of the reconstruction plan of the City of Arsita (TE) hit by the earthquake of L’Aquila 2009.
- Structural Analysis
- Sector Civil Engineering
- March 2013** Collaboration with Prof. Eng. Antonio Formisano  
Participation in COST Action C26 (Urban Habitat Construction Under Catastrophic Events)
- Structural Analysis
- Sector Civil Engineering

## EDUCATION AND TRAINING

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- 2013/2014** Master’s Degree in Structural Engineering | Title of Thesis:  
Evaluation of seismic-volcanic vulnerability of school buildings in Torre del Greco using multi-criteria analysis (MCDM)  
University of Naples: **Federico II**

**2011/2012** Bachelor's Degree in Structural engineering  
 Title of Thesis : Quick and mechanical seismic vulnerability analysis of building of the municipality of Montaquila (IS, Molise)  
 University of Naples: **Federico II** |

**2004/2005** High School Diploma  
 Technical Institute for Surveyors "G. Pittarelli"  
 | Campobasso (CB), Italy

**PERSONAL SKILLS**

Mother tongue Italian

Other language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Communication skills

- Able to deal courteously, professionally and tactfully with people in different circumstances
- Versatile, confident and professional speaking abilities gained through my university courses and my working experience
- Excellent written and verbal communication skills in Italian

Organisational / managerial skills

- A strong desire to achieve, excel and evolve makes all predetermined goals to reach great results
- Excellent personal motivation with a proven ability to work in a team environment derived from my university course
- Excellent common sense, judgement and decision-making abilities
- Able to coordinate several tasks simultaneously, aptitude derived from my working experience

Job-related skills

- A strong commitment to implement quality and to improve techniques, results from my thesis work
- Competitive attitude
- Quick learner with a flexible and adaptable nature

Digital competence	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
	Proficient user	Proficient user	Independent user	Proficient user	Proficient user



- Good Knowledge of PRO\_SAP 16
- Excellent knowledge of 3 Muri
- Good Knowledge of SAP2000
- Good knowledge of AUTOCAD
- Good knowledge of DIANA FEA 10.2
- Good knowledge of MIDAS FEA
- Good knowledge of OriginLab PRO
- Good Knowledge of QGIS 3.0.3 Girona
- Excellent command of Microsoft Office Suite and Internet

Driving licence B

## ADDITIONAL INFORMATION

### PUBLICATIONS

[1] Formisano, A., Chieffo, N., "*Multi-Criteria methodologies for the evaluation of seismic-volcanic vulnerability: the case of masonry schools in Torre del Greco (NA)*" **Science & Research, No.7 Monthly, May 2015, pp. 17-27 (ISSN 2283-5873).**

[2] Formisano, A., Castaldo, C., Chieffo, N., Chiumiento, G., "*Innovative and traditional techniques for seismic retrofitting of an existing RC school building: Life Cycle Assessment and performance rankings through MCDM methods*" Accepted for publication on acts of **SBE Congress 2016 "Europe and the Mediterranean Towards a Sustainable Built Environment"**.

[3] Formisano, A., Chieffo, N., Fabbroncino, F., "*The influence of local mechanism on large scale seismic vulnerability estimation of masonry building aggregates*" Accepted for publication of acts of **Congress ICCMSE 2016 "International Conference of Computational Methods in Sciences and Engineering " Athens, Greece, 17-20 March 2016.**

[4] Formisano, A., Chieffo, N., Fabbroncino, F., "*On the influence of the aggregate condition on the vibration period of masonry buildings: a case study in the district of Naples*" Accepted for publication of acts of **ICCMSE Congress 2016 "International Conference of Computational Methods in Sciences and Engineering" Athens, Greece, 17-20 March 2016.**

[5] Formisano, A., Chieffo, N., Fabbroncino, F., "*Seismic analysis of masonry building of the historical centre of Bacoli (Naples)*" Accepted for publication of acts of **XIV International Forum "Le Vie dei Mercanti World Heritage and Degradation, Smart Design, Planning and Technologies" Napoli 16-18 June 2016**

[6] Formisano, A., Chieffo, N., Fabbroncino, F., "*Parametric analysis on first mode failure mechanism of masonry building compounds: application to case study*" **XIV International Forum "Le Vie dei Mercanti World Heritage and Degradation, Smart Design, Planning and Technologies " Napoli 16-18 June 2016**

[7] Keller, A., Chieffo, N., Opritescu, E., Mosoarca, M., Formisano, A., "*Resilience of Historic Cities and Climate Change Mitigation*" **11th edition of the research conference on constructions, economy of buildings, architecture, urban and territorial development Integrated research for resilient, comfortable and safe cities".**



- [8] Formisano, A., Chieffo, N., Fabbroncino, F., Landolfo, R., "*Seismic vulnerability and damage of Italian historical centres: a case study in the Campania region*" **Accepted for publication of acts of ICNAAM Congress 2016 "International Conference of Numerical Analysis and Applied Mathematics"** Rodi, Greece.
- [9] Formisano, A., Chieffo, N., Fabbroncino, F., Mosoarca, M., "*Urban Resilience of Historical Centre: An application a building sector in the Municipality of Marigliano (Naples, Italy)*" **Accepted for publication of acts of RRRC International Congress 2016 "Risk Reduction for Resilient Cities"** Bucharest, Romania.
- [10] Formisano, A., Chieffo, N., Mosoarca, M., "*Probabilistic Damage Scenario: A case study in Amatrice effected by the 2016 seismic sequence*" **Accepted for publication of acts of 3<sup>rd</sup> PROHITECH International Congress 2017 "Protection of Historical Construction"** Lisbon, Portugal.
- [11] Formisano, A., Chieffo, N., Mosoarca, M., "*Urban Resilience of a built-up area in the Municipality of Marigliano (Naples, Italy)*" **Accepted for publication of acts of 3<sup>rd</sup> PROHITECH International Congress 2017 "Protection of Historical Construction"** Lisbon, Portugal.
- [12] Formisano, A., Chieffo, N., Mosoarca, M., and Landolfo, R., "*Seismic Vulnerability and Damage of historical centre in the district of Caserta (Italy)*" **Accepted for publication of acts of 3<sup>rd</sup> PROHITECH International Congress 2017 "Protection of Historical Construction"** Lisbon, Portugal.
- [13] Chieffo, N., Apostol, I., Keller, A., Mosoarca, M., and Marzo, A., "*Global behaviour of historical masonry structures and timber roof framework*" **Accepted for publication of acts of 3<sup>rd</sup> PROHITECH International Congress 2017 "Protection of Historical Construction"** Lisbon, Portugal.
- [14] Formisano, A., Chieffo, N., Mosoarca, M., "*Fragility and Resilience Curves of an Urbanised Sector in the District of Naples*" **International Journal of Constructive Research in Civil Engineering (IJCRCE); Volume 3, Issue 2, 2017, PP 58-67; ISSN 2454-8693 (Online) DOI: <http://dx.doi.org/10.20431/2454-8693.0302005>**
- [15] Formisano, A., Chieffo, N., Mosoarca, M., "*Seismic Vulnerability and Damage Speedy Estimation of an Urban Sector within the Municipality of San Potito Sannitico (Caserta, Italy)*" **The Open Civil Engineering Journal (TOCIEJ), 2017, 11, (Suppl-5, M6), DOI:10.2174/1874149501711011106.**
- [16] Formisano, A., Chieffo, N., "*Non-linear static analysis on an Italian masonry housing building through different calculation software packages*" **International Journal of Energy and Environment (IJEE), 12:2018, ISSN: 2308-1007.**
- [17] Formisano, A., Chieffo, N., "*Expected Seismic Risk in a District of the Sant'Antimo's Historical Centre*" **Trends in Civil Engineering and its Architecture (TCEIA), 2018, 2(1):1-15.**
- [18] Chieffo, N., Mosoarca, M., Formisano, A., Apostol, I., "*Seismic Vulnerability assessment and Loss estimation of an Urban distirct of Timisoara*" **3<sup>rd</sup> World Multidisciplinary Civil Engineering, Architecture, Urban Planning Symposium, "WMCAUS 18", Prague, Czech Republic, 2018.**
- [19] Azap, B., Apostol, I., Mosoarca, M., Chieffo, N., Formisano, A., "*Seismic Vulnerability scenario for historical areas of Timisoara*" **Modern Technologies for 3<sup>rd</sup> Millennium Conference, Oradea, Romania, 2018.**

- [20] Apostol, I., Mosoarca, M., Chieffo, N., Keller, A., Bocan, D., Bocan, C., Bradeanu, R., "Solution for improving seismic vulnerability of masonry buildings" **Modern Technologies for 3<sup>rd</sup> Millennium Conference, Oradea, Romania, 2018.**
- [21] Apostol, I., Mosoarca, M., Chieffo, N., "Seismic Vulnerability assessment for historical areas of Timisoara city, Romania" **8<sup>th</sup> International Conference on Engineering Failure Analysis (ICEFA 18), Budapest, Hungary, 2018.**
- [22] Chieffo, N., Formisano, A., Ferreira, T.M., "Parametric estimation of the seismic impact scenarios and expected losses at urban scale. The case study of historical centre of Sant'Antimo, Napoli, Italy" **Accepted to the proceedings of the congress Resilience and Sustainability of Cities in Hazardous Environments, Naples, 2018.**
- [23] Chieffo, N., Formisano, A., "Comparative analysis method of assessment of vulnerability and seismic risk for building in aggregate in old town" **Accepted to the proceedings of the congress Resilience and Sustainability of Cities in Hazardous Environments, Naples, 2018.**
- [24] Chieffo, N., Formisano, A., "The Influence of Geo-Hazard Effects on the Physical Vulnerability Assessment of the Built Heritage: An Application in a District of Naples" **Buildings, 2019, 9, 26, pp. 21. DOI:10.3390/buildings9010026.**
- [25] Chieffo, N., Formisano, A., "Geo-Hazard-Based Approach for the Estimation of Seismic Vulnerability and Damage Scenarios of the Old City of Senerchia (Avellino, Italy)" **Geosciences, 2019,9, 59, pp. 21. DOI:10.3390/geosciences9020059.**
- [26] Chieffo, N., Formisano, A., Ferreira, TM, "Damage scenario-based approach and retrofitting strategies for seismic risk mitigation: an application to the historical centre of Sant'Antimo (Italy)" **European Journal of Environmental and Civil Engineering, 2019, https://doi.org/10.1080/19648189.2019.1596164.**
- [27] Chieffo, N., Clementi, F., Formisano, A., Lenci, S. "Comparative fragility methods for seismic assessment of masonry buildings located in Muccia (Italy)" **Journal of Building Engineering Volume 25, September 2019, 100813.**
- [28] Chieffo, N., F., Formisano, A. "Comparative Seismic Assessment Methods for Masonry Building Aggregates: A Case Study" **Frontiers in Built Environment.**
- [29] Mosoarca, M., Onescu, I., Onescu, E., Chieffo, N., Szitar-Sirbu, M. "Seismic vulnerability assessment for the historical areas of the Timisoara city, Romania" **Engineering Failure Analysis.**
- [30] Chieffo, N., Onescu, I., Formisano, A., Mosoarca, M., Palade M. "Integrated empirical-mechanical seismic vulnerability analysis method for masonry buildings in Timișoara: validation based on the 2009 Italian earthquake" **Accepted in: Open Civil Engineering Journal.**
- [31] Chieffo, N., Formisano, A., Mosoarca, M., P. B. Lourenço. "Seismic vulnerability assessment of Romanian historical building under near-source earthquake" **Accepted for the International Conference – Structural Analysis of Historical Construction - SAHC20.**
- [32] Chieffo, N., Formisano, A. "Geological hazard effects on the seismic vulnerability and damage assessment of the municipality of Romagnano al Monte (Italy)" **Accepted for the International Conference PROHITECH20.**
- [33] Chieffo, N., Formisano, A., Mosoarca, M., P. B. Lourenço. "Seismic vulnerability assessment of Romanian historical building under near-field earthquake" **Proceedings of the International Conference on Structural Dynamic , EUROODYN, 2, pp. 4957-4971, 2020.**

[34] Chieffo, N., Formisano, A. “*Induced Seismic-Site Effects on the Vulnerability Assessment of a Historical Centre in the Molise Region of Italy: Analysis Method and Real Behaviour Calibration Based on 2002 Earthquake*”. **Geosciences** **2020**, **10(1)**, **21**.

[35] Formisano, A., Chieffo, N., Clementi, F., Mosoarca, M. “*Influence of local site effects on the typological fragility curves for class-oriented masonry buildings in aggregate condition*”. **Open Civil Engineering Journal**, **2021**, **15(Specialissue1)**, pp. **149–164**.

[36] Formisano, A., Chieffo, N., Vaiano, G. “*Seismic Vulnerability Assessment and Strengthening Interventions of Structural Units of a Typical Clustered Masonry Building in the Campania Region of Italy*”. **GeoHazard**, **2021**, DOI: **10.3390/geohazards2020006**.

[37] Chieffo, N., Formisano, A., Mochi, G., Mosoarca, M. “*Seismic Vulnerability Assessment and Simplified Empirical Formulation for Predicting the Vibration Periods of Structural Units in Aggregate Configuration*”. **Geosciences (Switzerland)** **11(7)**.

## ANNEXES

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Replace with list of documents annexed to your CV. Examples:

- copies of degrees and qualifications;
- testimonial of employment or work placement;
- publications or research.

