

PERSONAL INFORMATION **Mattia Schiantella**

WORK EXPERIENCE

June 2024 – Today **Research fellow**
Institution University of Perugia - Department of civil and environmental engineering
93 Via Goffredo Duranti, Perugia (06125), Italy

February 2023 – January 2024 **Research fellow**
Institution University of Perugia - Department of civil and environmental engineering
93 Via Goffredo Duranti, Perugia (06125), Italy

December 2021 – May 2022 **Tutor in “Scienza delle costruzioni”**
Institution University of Perugia - Department of civil and environmental engineering
93 Via Goffredo Duranti, Perugia (06125), Italy

17 June 2019 – 17 October 2019 **Structural engineer**
Company Archiplan progetti - Civil engineer design company
60 Via Luigi Catanelli, Ponte San Giovanni (06135), Perugia, Italy

EDUCATION AND TRAINING

2019 – 2022 **PhD in “INTERNATIONAL DOCTORAL PROGRAM OF CIVIL AND ENVIRONMENTAL ENGINEERING”**
Thesis title “Limit analysis of non-periodic masonry by means of Discontinuity Layout Optimisation”
Institution University of Perugia - Department of civil and environmental engineering
93 Via Goffredo Duranti, Perugia (06125), Italy

June 2019 **Order of engineers qualification**
Institution Order of engineers
Final evaluation 163/200

21 December 2016 – 17 April 2019 **Master degree in Civil engineering LM-23**
Institution University of Perugia - Department of civil and environmental engineering
93 Via Goffredo Duranti, Perugia (06125), Italy
Final evaluation 110/110 cum laude

02 October 2013 – 14 December 2016 **Bachelor degree in Civil engineering L-7**
Institution University of Perugia - Department of civil and environmental engineering
93 Via Goffredo Duranti, Perugia (06125), Italy
Final evaluation 101/110

2008 – 2013 **Secondary school for surveyors**
Institution “I.T.C.G. Ruggero Bonghi”
20 Via Armando Diaz, Assisi (06081), Italy
Final evaluation 100/100

PARTECIPATIONS IN
CONFERENCES**Conference XXVI AIMETA CONFERENCE**

Title EFFECT OF MECHANICAL DEFECTS IN LATTICE STRUCTURES BY MEANS OF LIMIT ANALYSIS

Authors M.Schiantella, F.Cluni, V.Gusella

Period 2-6/09/2024

Location Napoli, Italy

Conference EMI CONFERENCE

Title LIMIT ANALYSIS OF NON-PERIODIC MASONRY BY MEANS OF DISCONTINUITY LAYOUT OPTIMIZATION

Authors M.Schiantella, M. Gilbert, C.C.Smith, L.He, F.Cluni

Period 27-30/08/2023

Location Palermo, Italy

Conference EMI CONFERENCE

Title BEARING CAPACITY OF TRUSS LATTICE STRUCTURES

Authors M.Schiantella, F. Cluni

Period 27-30/08/2023

Location Palermo, Italy

Conference XXV AIMETA CONFERENCE

Title LIMIT ANALYSIS OF MASONRY WITH NON PERIODIC TEXTURES BY MEANS OF DLO

Authors M.Schiantella, M. Gilbert, C.C.Smith, L.He, F.Cluni, V.Gusella

Period 04-08/09/2022

Location Palermo, Italy

Conference International Conference on Nonlinear Solid Mechanics (ICoNSoM 2022)

Title DISCONTINUITY LAYOUT OPTIMIZATION FOR THE LIMIT ANALYSIS OF NON-PERIODIC MASONRY

Authors M.Schiantella, M. Gilbert, C.C.Smith, L.he, F.Cluni, V.Gusella

Period 13-16/06/2022

Location Alghero, Italy

Conference 8th ECCOMAS Congress

Title LIMIT ANALYSIS OF NON-PERIODIC MASONRY BY MEANS OF DISCONTINUITY LAYOUT OPTIMIZATION

Authors M.Schiantella, M. Gilbert, C.C.Smith, L.he, F.Cluni, V.Gusella

Period 05-09/06/2022

Location Alghero, Italy

Conference 25th International congress of theoretical and applied mechanics (IC-TAM) - IUTAM

Title THE DISCONTINUITY LAYOUT OPTIMIZATION (DLO) FOR THE EVALUATION OF LIMIT LOAD OF NONPERIODIC TEXTURE MASONRIES

Authors F.Cluni, V.Gusella, M.Schiantella

Period 22-27/08/2021
 Location Online

PERSONAL SKILLS

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
English certification by C.L.A. University of Perugia					

Computer skills

- MATLAB
- PYTHON
- SAP2000
- AUTOCAD
- SISMICAD
- MICROSOFT OFFICE PACK
- LATEX
- ABAQUS
- NTOP

PUBLICATIONS

- [1] Linwei He, Mattia Schiantella, Matthew Gilbert, and Colin C Smith. “A Python script for discontinuity layout optimization”. In: *Structural and Multidisciplinary Optimization* 66.7 (2023), p. 152.
- [2] Mattia Schiantella, Matthew Gilbert, C Smith, Linwei He, Federico Cluni, and Vittorio Gusella. “Limit analysis of non-periodic masonry by means of discontinuity layout optimization”. In: *8th European Congress on Computational Methods in Applied Sciences and Engineering*. CIMNE. 2022.
- [3] Mattia Schiantella, Federico Cluni, and Vittorio Gusella. “Parametric Analysis of Failure Loads of Masonry Textures by Means of Discontinuity Layout Optimization (DLO)”. In: *Materials* 15.10 (2022). URL: <https://www.mdpi.com/1996-1944/15/10/3691>.
- [4] Federico Cluni, Vittorio Gusella, and Mattia Schiantella. “Upper Bound Limit Analysis of Quasi-Periodic Masonry by Means of Discontinuity Layout Optimization (DLO)”. In: *Proceedings of XXIV AIMETA Conference 2019*. Ed. by Antonio Carcaterra, Achille Paolone, and Giorgio Graziani. Cham: Springer International Publishing, 2020, pp. 2124–2133.
- [5] Mattia Schiantella, Federico Cluni, and Vittorio Gusella. “Geometrical uncertainties influence on the failure load estimation of lattice structures”. In: *Probabilistic Engineering Mechanics* 76 (2024), p. 103636.
- [6] Mattia Schiantella, Matthew Gilbert, Colin C Smith, Linwei He, and Federico Cluni. “Limit Analysis of 2D Non-Periodic Masonry Walls via Discontinuity Layout Optimization”. In: *International Journal of Architectural Heritage* (2024), pp. 1–21.
- [7] Mattia Schiantella, Federico Cluni, and Vittorio Gusella. “Effect of mechanical imperfections on the onset of yielding in lattice structures”. In: *Mechanics of Advanced Materials and Structures* (2025), pp. 1–12.
- [8] Federico Cluni, Mattia Schiantella, Francesco Faralli, and Vittorio Gusella. “Mesoscale analysis of concrete earth mixtures, from CT to random generation of RVE”. In: *Probabilistic Engineering Mechanics* (2025), p. 103765.

Perugia, May 29, 2025

Luogo e data

Il sottoscritto