A.D. 1308
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DIPARTIMENTO
DI INGEGNERIA
CIVILE E AMBIENTALE

CIVIL AND ENVIRONMENTAL ENGINEERING

DOCTORAL PROGRAM 2024-2025

Federico Cluni is Associate Professor in Structural Mechanics at the Department of Civil and Environmental Engineering of University of Perugia.

He teaches "Structural Plasticity and Stability" and "Dynamics of Structures" courses for the Master's Degree in Civil Engineering.

He has been member of programs funded by the Italian Ministry of University and Scientific Research on wind engineering, vibrations in civil engineering structures, advanced mechanical modeling of new materials and structures and modelling of constitutive laws for traditional and innovative building materials.

His reserach is devoted to the analysis and reliability of historical buildings, numerical analysis of masonry walls through the homogenization method, dynamics of cables (experimental test in wind tunnel, numerical models , fatigue analysis), development of equivalent beam models for tall buildings under environmental loads (wind and earthquakes), development of techniques for the identification of masonry texture through photographic adn thermographic images, developing of nonlocal models for the design of innovative composite materials.

Location

Room 13, Campus of Engineering of University of Perugia Via G. Duranti, 93 - Perugia

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PYTHON FOR NUMERICAL COMPUTING AND DEVELOPMENT OF SCIENTIFIC APPLICATIONS

Instructor

Federico Cluni Ph.D., Associate Professor, University of Perugia

Course description

The course aims to provide skills for the use of the Python programming language in the scientific field. In the first part, the students will learn the basics of the language (data types and structures, syntax, control flow tools, input and output, classes); in the second part, the students will learn how to use tools dedicated to the management and processing of scientific data. Particular attention will be paid to possible applications in civil and environmental engineering research and to the acquisition of the skills necessary to share the results of research by means of stand-alone applications or web apps.

Course Schedule (30 hours, 5 CFU)

Day	Date	Time
Wednesday	14/01/2026	10:30 - 13:30
Friday	16/01/2026	10:30 - 13:30
Wednesday	21/01/2026	10:30 - 13:30
Friday	23/01/2026	10:30 - 13:30
Wednesday	28/01/2026	10:30 - 13:30
Friday	30/01/2026	10:30 - 13:30
Monday	02/02/2026	10:30 - 13:30
Wednesday	04/02/2026	10:30 - 13:30
Wednesday	11/02/2026	10:30 - 13:30
Friday	13/02/2026	10:30 - 13:30