

PERSONAL INFORMATION

Full Name: Massimiliano Cremonesi

Nationality: Italian

Birthdate and place: July, 3rd 1982 - Orzinuovi (BS), Italy

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EDUCATION

2010 Ph.D. in Structural, Earthquake and Geotechnical Engineering Politecnico di Milano (Italy)

Title: A Lagrangian finite element method for the interaction between flexible structures and free surface fluid flows Supervisor: Prof. U. Perego

2006 Master Degree in Mathematical Engineering, Politecnico di Milano (Italy)

2004 Bachelor Degree in Mathematical Engineering, Politecnico di Milano (Italy)

CURRENT POSITION

2019 Associate Professor of Solid and Structural Mechanics, Department of Civil and Environmental Engineering, Politecnico di Milano (Italy)

PREVIOUS POSITIONS

2014 – 2019 Assistant Professor of Solid and Structural Mechanics, Department of Civil and Environmental Engineering, Politecnico di Milano (Italy)

2012 – 2014 PostDoc at Department of Civil and Environmental Engineering, Politecnico di Milano

2011 PostDoc at Laboratoire de Mécanique et Technologie (LMT), École Normale Supérieure de Cachan, (France)

2010 PostDoc at Department of Structural Engineering, Politecnico di Milano (Italy)

TEACHING ACTIVITIES

2017 - 2024 Teacher of the course *Solid and Structural Mechanics* for Building Engineering, 9 ECTS, Politecnico di Milano, Italy

2016 – 2017 Teacher of the course *Mathematics and Solid Mechanics* for Environmental Architecture, 4 ECTS, Politecnico di Milano, Italy

2015 - 2024 Teacher of the course *Solid and Structural Mechanics* for Environmental Architecture, 8 ECTS, Politecnico di Milano, Italy

2014 - 2015 Teacher of the course *Statics and principles of structural behavior for Environmental Architecture*, 4 ECTS, Politecnico di Milano, Italy

2007 – 2014 Teaching assistant of the different courses of *Computational Mechanics*, *Advanced Computational Mechanics*, *Solid and Structural Mechanics*, *Fracture Mechanics* for Civil, Mathematical and Mechanical Engineering

Advanced teaching activities:

2021 and 2023 Director of the advanced course on “Particle-Based Methods in Engineering and Applied Science”, Hamburg, Germany, 2-3 October, 2021 and Milano, Italy, 7-8 October, 2023

2019 -2024 Teacher of the course “Advanced topics in the finite element method for structural analysis”, Politecnico di Milano, 3 editions

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2010 – date Supervisor of 25 Master students in Civil Engineering and 2 Master students in Mathematical Engineering.
Supervisor of 4 Ph.D. students in Structural, Earthquake and Geotechnical Engineering (2 ongoing).
Supervisor of 9 PostDoc fellows (7 ongoing).

PUBLICATIONS:

Author of 33 papers in peer-reviewed journals (top-ranked in the field of Computational Mechanics). According to the database Scopus at the current date (2024, April) MC has 1181 citations and an h-index of 21. According to Google Scholar: citations number: 1560, h-index= 22.

CONFERENCES:

MC always participated actively in the national and international conferences in the area of Computational Mechanics, as testified by the more than 50 papers presented (of which 10 by invitation of the Organizers). He has been selected as semiplenary Lecturers at ECCOMAS Congress 2022 (June 2022), plenary lecturer at the Italian Conference of Applied and Theoretical Mechanics (September, 2019), selected as “Keynote” Lecturer at “ECCOMAS Coupled Conference 2017 (June, 2017) and invited plenary speaker for the conference “Scientific Computing in Electrical Engineering” (October, 2016). MC has been invited to give seminars in different Institutions (e.g. TU Deft, University of Liege,...).

AWARDS AND ACKNOWLEDGEMENTS

2019 “AIMETA Junior” Prize for Mechanics of Solids and Structures (awarded, on a biennial basis, by the Italian Association of Theoretical and Applied Mechanics (AIMETA) to young (i.e., under 38) Italian scientists for outstanding research results
2016 Selected as a member of the Young Investigator Committee of ECCOMAS (European Community on Computational Methods in Applied Sciences). The Young Investigator Committee is composed of young scientists (40 years old or younger) with the final aim of promoting the activities of young researchers in the field of computational science.

ORGANISATION OF SCIENTIFIC MEETINGS

2023 Chairman and Organizer of the International Conference “Particles2023” organized by ECCOMAS and IACM, Milano” 9-11 October, 2023
2021 Organizer of the symposium “Particle-Based Methods For Natural Hazards Simulation” at Particles 2021, 4-6 October, 2021
2021 Organizer of the symposium “Advances in particle-based methods for the simulation of coupled problems” at Coupled2021, 13-26 June, 2021
2020 Organizer of the symposium “Numerical Simulation of Natural Hazards” at World Congress in Computational Mechanics and ECCOMAS Congress 2020, 19-24 July, 2020
2019 Organizer of the symposium “Particle-Based Methods for the Simulation of Natural Hazards” at Particles 2019, 28-30 October, 2019
2018 Organizer of the symposium “Numerical Simulation of Landslides and Debris Flows” at World Congress in Computational Mechanics, New York City, 22-27 July, 2018
2017 Chairman and Organizer of the International Conference “Young Investigator Conference 2017” organized by ECCOMAS (European Community on Computational Methods in Applied Sciences), Milano, 13-15 September 2017

Milano, April 2024
Massimiliano Cremonesi

