PERSONAL INFORMATION

Full Name: Massimiliano Cremonesi

Nationality:

Birth date and place:

Address: Department of Civil and Environmental Engineering, Politecnico di Milano, piazza

Leonardo da Vinci 32, 20133, Milano (Italy)

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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)

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)

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2010 - date Supervisor of 15 Master students in Civil Engineering and 2 Master students in

Mathematical Engineering.

Supervisor of 2 Ph.D. students in Structural, Earthquake and Geotechnical Engineering.

Supervisor of 2 PostDoc fellows.

TEACHING ACTIVITIES

2017 - 2021	Teacher of the course Solid and Structural Mechanics for Building Engineering, 9 ECTS,	
	Politagnico di Milano, Italy	

Politecnico di Milano, Italy

2016 - 2017 Teacher of the course *Mathematics and Solid Mechanics* for Environmental Architecture, 4

ECTS, Politecnico di Milano, Italy

2015 - 2021 Teacher of the course *Solid and Structural Mechanics* for Environmental Architecture, 6

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

Architecture, 4 EC18, 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:

- Director of the advanced course on "Particle-Based Methods in Engineering and Applied Science", CIMNE, Barcelona 6-7 July, 2020
- 2019 and 2020 Teacher of the course "Advanced topics in the finite element method for structural analysis", Politecnico di Milano

ORGANISATION OF SCIENTIFIC MEETINGS

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)

INSTITUTIONAL RESPONSIBILITIES

2020	Member of a Committee for a PhD Defence, Politecnico di Milano (Italy)
2019	Member of a Committee for a PhD Defence, University of Liege (Belgium)
2019	Member of a Committee for a PhD Defence, Universitat Politècnica de Catalunya,
	Barcelona (Spain)
2010 to date	Reviewer for the principal journal in the field of Computational Mechanics (approximately
	12 reviews per year) e.g. Natural Hazard, Ocean Engineering, Finite Elements in Analysis
	and Design, Engineering and Computational Mechanics, Advances in Water Resources,
	Nuclear Engineering and Design, Meccanica, Computational Particle Mechanics,
	Concurrency and Computation, European Journal of Mechanics - A/Solids e Advanced
	Modeling and Simulation in Engineering Sciences.

MEMBERSHIPS OF SCIENTIFIC SOCIETIES:

2018 - date	EUROMECH - European Mechanics Society
2017 - date	SISCO – Italian Association of Solid and Structural Mechanics
2007 - date	AIMETA – Italian Association of Theoretical and Applied Mechanics

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 member of the Young Investigator Committee of ECCOMAS (European
	Community on Computational Methods in Applied Sciences). The Young Investigator
	Committee is composed by young scientists (40 years old or younger) with the final aim of
	promoting the activities of young researcher in the field of computational science.
2013	Awarded by NVIDIA Corporation with a computing graphics processing unit (GPU Tesla
	K20) for the development of scientific research
2012	National French qualification to the position of "Maître de conférences", sector 60,
	Mécanique, génie mécanique, génie civil
2011	Finalist of the 1st PhD Olympiads (European competition for the best PhD thesis on
	Computational Mechanics)

FOUNDING (AS PI):

2020	DEMAC srl, Numerical simulation Archimedes' springs, 37 k€
2020	DEMAC srl, Numerical simulation of hose reels, 35 k€
2019 - 2022	Ministry of Education, University and Research, XFAST-SIMS: Extra fast and accurate
	simulation of complex structural systems, 140 k€
2017	ENI s.p.a., Implementation of Vermeer-Neher elasto-visco-plastic constitutive law in a
	Abaqus user subroutine, 15k€
2016	Pfisterer S.r.l, Numerical simulation of current interrupter, 1.5 k€
2016	ABB Switzerland Ltd, Corporate research: Lagrangian Approaches for the Modelling of
	Vacuum Arcs in 3D, 34k€
2015	ABB Switzerland Ltd, Corporate research: Lagrangian Approaches for the Modelling of
	Vacuum Arcs in 3D, 50k€

PUBLICATIONS:

I authored more than 25 papers in peer reviewed journals (top ranked in the field of Computational Mechanics). According to the database Scopus at the current date (2021, February) I have 619 citations and h-index of 14. According to Google Scholar: citations number: 864, h-index= 15.

CONFERENCES:

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

Milano, February, 2021

Massimiliano Cremonesi

Homulian Jamas