Antonio Caggiano

Fixed-term assistant professor

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+39 3755854555

Education and training

2018
Abilitazione Scientifica Nazionale - Associate Professor (IT-ICAR/09)
MIUR - Roma - IT

2014
PhD in Ciencias Exactas e Ingeniería (PhD in Exact Science and Engineering)
10/10
Facultad de Ciencias Exactas y Tecnología / Universidad Nacional - Tucumán - AR

2013
PhD in Ingegneria delle Strutture e del Recupero Edilizio ed Urbano (PhD in Engineering)
Facoltà di Ingegneria/ Dip. di Ingegneria Civile / Università di - Fisciano (SA) - IT

2008
Master Degree Civil Engineering
110/110 e lode
UniSA - Fisciano (SA) - IT

2005
Bachelor Degree Civil Engineering
110/110
UniSA - Fisciano (SA) - IT

Academic experience

2022 - ONGOING
RtdB (tenure tr. Associate Prof.) ICAR/09
University of Genova - Genova - IT
Research and Teaching

2020 - 2022
Group leader (Topic Energy-intelligent Construction)
Technische Universität Darmstadt - Darmstadt - DE

Research and Teaching - SCIENTIFIC SUPERVISION (5 years 02.2017-01.2022) as Group Leader at TU Darmstadt (super-vising 3 post-docs and 6 PhD students.

2017 - 2020

Research Fellow (Humboldtian) of the Alexander von Humboldt Foundation workplace at Institute of Construction and Building Materials

Technische Universität Darmstadt - Darmstadt - DE
Research

2019 - 2022

Adjunct Professor and part of the Curricular Commission of the Master career (2nd level) Construction Structural Design

University of Buenos Aires - Buenos Aires - AR
Research and Teaching

2014 - 2022

Researcher at CONICET (Nat. Scientific Tech. Research Council)

CONICET (Nat. Scientific Tech. Research Council) - Buenos Aires - AR
Research

2012 - 2019

Jefe de Trabajos Practicos (Teaching Assistant)

University of Buenos Aires - Buenos Aires - AR
Research and Teaching

Language skills

Portuguese

Basic

Research interests

Prof. Caggiano is leading the group of Numerical Mechanics of Concrete and Structures at Dep. Civil, Chemical & Envrnm. Eng. of Univ. of Genova. He has a huge expertise in FEM, multiscale, meso-scale and coupled mechanisms, with a proven track record in formulating numerical models for describing the non-linear behavior of cohesive-frictional materials, like concrete, under combined physical-mechanical actions. In the last 6 years he became one of the worldwide recognized leader of the topic Thermal Energy Storage in Cementitious Composites. He was leading the thematic research group “Energy-intelligent Construction” composed of 3 post-docs and 5 PhD students (2017-2022) at TU-Darmstadt; leading and co-coordinating the H2020 NRG-STORAGE https://cordis.europa.eu/project/id/870114 (2020-2022), WP2 leader of the H2020 FETOPEN Miracle project

https://cordis.europa.eu/project/id/964450 (2021-2022) and deputy chair of the International RILEM Tech. Committee (TC-TES: Thermal energy storage in cementitious composites) coordinated with Dr. Dolado (CSIC-ES). He recently got the funding of the BEST project (HORIZON-MSCA-2021-SE-01-01, 2022-2025) as PI at UniGE, and shortlisted for the interview of a ERC Consolidator Grant. He co-authored 48 ISI papers (46 research articles, 2 reviews: 18/45 as 1st author + 15/45 as senior and leader of the work). In 38/45 ISI papers he is the main author and/or leader of the work (i.e., corr. auth., supervising a PhD Student, last author). The complete list of publications is composed of 48 J papers, 5 patents, 5 book chapters, 29 FP7/H2020 EU deliverables, 60 contributions in Proceedings and 24 abstracts, extended abstracts or posters.
Most contributed Topics 2017–2021 (source scopus):

- Phase Change Materials; Hot Temperature; Octadecane
- Mechanical Properties; Self Compacting Concrete; Concrete Slabs
- Strengthening; Carbon Fiber Reinforced Plastics; Debonding