PERSONAL INFORMATION	Donato Perfetto, PhD Via Roma 29, 81031 Aversa (Italia) Mobile: +39 339 6080 685 email: <u>donato.perfetto@unicampania.it</u> Gender Male Date of birth 05/03/1993 Nationality Italian
CURRENT ACADEMIC	
01/12/2020 – to date	Postdoctoral Research Associate – Department of Engineering of the University of Campania Luigi Vanvitelli. SC 09/A3; SSD 09/A3.
	Research Activity: Structural Health Monitoring, Machine Design.
09/06/2023 - 09/06/2034	 National scientific Qualification (ASN - Abilitazione Scientifica Nazionale) to function as Associate Professor in Italian Universities – disciplinary field of 09/A3 – Industrial design, machine construction and metallurgy (art. 16, comma 1, Law 240/10).
2019	 Passed the government exam and licensed as Professional Engineer (Italian Legislation).
EDUCATION	
01/11/2017 – 08/01/2021	 Doctor Europaeus in Industrial and Information Engineering – Department of Engineering of the University of Campania Luigi Vanvitelli. Thesis: "Numerical Design Techniques and Detection Criteria of a Guided Wave-Based Structural Health Monitoring System
09/2014 – 07/2017	for Real Fibre-Reinforced Polymeric Composite Structures". Master's Degree in Mechanical Engineering, summa cum laude - University of Campania Luigi Vanvitelli.
09/2011 – 02/2015	 Thesis: "Numerical simulation of Lamb waves propagation in a GFRP aircraft winglet for SHM purposes". Bachelor's Degree in Aerospace-Mechanical Engineering, <i>summa cum laude</i> - University of Campania Luigi Vanvitelli. Thesis: "Parametric investigation on the tensile strength of an hybrid (composite-metal) bonded-bolted joint".
RESEARCH EXPERIENCES	
IN ITALY 15/12/2021 – to date	Postdoctoral Research Associate - Department of Engineering of the University of Campania Luigi Vanvitelli – funded by MUR within the framework of the PON "DESIRE". Title: "Techniques and methodologies for monitoring the health of industrial products and processes for maintenance and methodologies."
01/12/2020 - 30/11/2021	 Postdoctoral Research Associate - Department of Engineering of the University of Campania Luigi Vanvitelli – funded within the framework of V:ALERE2019 Research Program by the research Project "SCISSOR". Title: "Design and modelling of virtual environments for product and process environments".
01/09/2021 - 01/10/2021	 Occasional self-employed role for research support activities - Department of Engineering of the University of Campania Luigi Vanvitelli – as part of the research project "CAPRI", funded by the Aerospace Technological District of Campania (DAC) under the measure PON Ricerca & Competitività 2007-2013 (Campania Region). Title: "Investigation on ultrasonic guided wave propagation mechanisms in stiffened structures".
15/05/2020 - 04/06/2020	 Occasional self-employed role for research support activities - Department of Engineering of the University of Campania Luigi Vanvitelli – as part of the intra-academic competitive research Project "DEWO4SME", funded by Campania Region. Title: "Investigation on ultrasonic guided wave propagation mechanisms in composite materials".
INTERNATIONAL RESEARCH EXPERIENCE	_
21/10/2019 – 24/03/2020,	Visiting PhD Student - Imperial College of London – Department of Aeronautics, South Kensington Campus. Supervisor MH Ferri Aliabadi. Activities: Structural Health Monitoring systems based on ultrasonic guided/elastic wave propagation in isotropic and fibre- reinforced composite materials; modelling of the dispersive nature of Lamb waves by means of the Finite Element method; effect of real operating conditions, as varying temperature, on guided waves.
ACADEMIC TEACHING ACTIVITIES	
07/09/2022 to date	Adjunct Professor – Department of Industrial Engineering – University of Salerno Course: Structural Design and Manufacturing of Mechanical Components (3 ECTS).
AWARDS, PATENTS	
Patents	 Patent application n. UIBM 102022000012982 – 20/06/2022 "Dispositivo e metodo per l'identificazione di danni strutturali" (Owner and Inventor). Patent extension application PCT/IB2023/056327 – 01/09/2023 "Method and device for the identification of structural
Awards	 damages" (Owner and Inventor). Software Simulation Award – 51st International Conference on Stress Analysis AIAS 2022. Work entitled "Virtual simulations for structural health monitoring in hydrogen vessel"; A. De Luca, D. Perfetto, A. Aversano, A. Polverino, N. Rezazadeh, R. Vallifucco, A. Minardo, G. Lamanna, F. Caputo.
	 Software Simulation Award – 47^a International Conference on Stress Analysis AIAS 2018. Work entitled "Vertical Crash of a Composite Fuselage Section"; A. De Luca, D. Perfetto, A. Greco, G. Lamanna, F. Caputo.
ADDITIONAL ACTIVITIES	
Editorial activities	 Reviewer for several international peer-reviewed and indexed journals. Guest Editor for the Special Issue entitled: Recent Advances in Smart Design and Manufacturing Technology, Machines – MDPI.
Conferences	 Scientific Committee at 7th International Conference POLCOM (Progress on Design Techniques and Manufacturing Technologies for Advanced Products and Processes in the Modern Era); Scientific Committee at IWAR 2023 Conference - VII International Workshop on Autonomous Remanufacturing; Scientific Committee at 6th International Conference POLCOM (Progress on Polymer and Composite Products and Manufacturing technologies); Organizing Committee at International Joint Conference on Mechanics, Design Engineering and Advanced Manufacturing (JCM 2022); Organizing Committee at 9th International Conference "Time of Polymers and Composites" (TOP 2018). Speaker at several national and international conferences.
RESEARCH PROJECTS	
09/2022 – 10/2023 09/2020 – 12/2021	 Member of "GENESIS – self-diaGnostic hydrogEN vESsel Integrity System", awarded for a total funding of € 65,000.00 within the applied and industrial research projects for type A and B Research Fellows – University of Campania Luigi Vanvitelli. Member of "SAFES – Smart pAtch For activE Shm", awarded for a total funding of € 23,000.00 within the applied and industrial research projects for type A and B Research Fellows V:ALERE2020 Programme – University of Campania Luigi Vanvitelli.