

Curriculum Vitae

PERSONAL INFORMATION	Federica Mezzani
PERSONAL STATEMENT	The candidate graduated with honour in Mechanical Engineering in 2011. Her several international experiences include the internship at BMW for her master thesis, research activity at the University of Auckland (NZ), a collaboration within the Virgo project for the gravitational wave discovery. In this context, she was awarded with the Special Breakthrough prize in Fundamental Physics and the Gruber Cosmology prize. During her PhD at Sapienza, University of Rome, she developed the experimental campaign related to her thesis at Technion, Israel Institute of Technology in Haifa. Awarded Doctor in Theoretical and Applied Mechanics at the Faculty of Engineering, Dept. of Mechanical and Aerospace Engineering in 2019, she is currently a post-doc researcher working in the same department on the project "MINOR: new generation demining method", which earned her the L'Oréal-Unesco Foundation prize "For Women In Science" 2019.
WORK EXPERIENCE	
April 2020-To date	Member of the Task Force "Donne per il Nuovo Rinascimento"
·	Department for Equal Opportunities (Presidency of the Council of Ministries)
September 2019-To date	Goals: analysis of the impact of COVID-19 epidemic on different sectors; promotion of women worker's rights and gender equality (focus on STEM sectors); report editing and plan proposals. Researcher
	"Sapienza" University of Rome, Department of Mechanical and Aerospace Engineering, Rome, Italy
March 2014-August 2019	Within the project "MINOR: MINe Overall Recognition" (funded by L'Oréal-Unesco prize "For Women In Science" 2019), aimed at the localization of antipersonnel mines through a swarm of autonomous drones, equipped with new generation sensors, the performed activities include: development of machine learning techniques to identify buried antipersonnel mines from GPR data acquisitions, experimental campaign. Researcher
	"Sapienza" University of Rome, Department of Mechanical and Aerospace Engineering, Rome, Italy
	Within the Applied Mechanics group of the department, the activities are mainly focused on the dynamics of unconventional structures, such as elastic metamaterials. "Sapienza" University of Rome, Physics Department, Rome, Italy
March 2018-June 2018	In the context of the research and the successful discovery of Gravitational Waves, main activities were the design, the structural and dynamic analyses and the complete realization of Power and Signal recycling payloads for the Advanced Virgo Interferometer. Visiting Researcher
	Technion - Israel Institute of Technology, Department of Mechanical Engineering
November 2017	The activity is devoted to the experimental campaign on a twin-system composed by two identical waveguides, part of the focus of the PhD thesis on elastic metamaterials. Supervisor: Prof. Izhak Bucher Visiting Researcher
	Ecole Centrale Supélec, Laboratoire Mécanique des Sols, Structures et Matériaux (MSSMat
October 2012-May 2013	Title of the project: Granular metamaterials: a novel use of an ancient component in the reduction of noise and vibrations Researcher
-	University of Auckland, New Zealand
September 2016 – June 2018	Wave propagation through standard materials and porous materials using WFE method (collaboration with Autonuem www.autoneum.com). The candidate is also Teaching Assistant for the Statics and dynamics course Supervisor: Prof. Brian Mace Project Manager of the Remote Lab project
	"Sapienza" University of Rome, Department of Mechanical and Aerospace Engineering, Rome, Italy



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Communication skills	l have always had go Formula SAE team a		skills improved by exp sity of Auckland	periences as Busines	ss Plan reporter for	
English	C1	C1	C1	C1	B2	
	Listening	Reading	Spoken interaction	Spoken production	D 0	
Other language	UNDERSTANDING		SPEAKING		WRITING	
Mother tongue	Italian					
PERSONAL SKILLS						
January 2009-November 2011	M. Sc. Mechanical Engineering Vote: 110 with honour Sapienza, University of Rome					
	The aim of the program is to train new actors in the development of advanced technology in multidisciplinary content, with a strong aptitude for inventive capacity, the technological development of a new product, to strategies targeted to the protection of intellectual property, market and financial sustainability of the newfound technology.					
February 2015-December 2015	The focus of this PhD is the study of elastic Metamaterials in which the long-range interactions, due to magnetic inclusions, redefine the concept of wave propagation in structures. II Level Master "Inventive Engineering" Vote: 110 with honour Sapienza, University of Rome					
November 2015-February 2019	PhD Student in Applied Mechanics Vote: Excellent Sapienza, University of Rome Vote: Excellent					
EDUCATION AND TRAINING						
	absorber system. NVH structural inves full vehicles to analys	stigations were condu se the static and dyn	ible local static and d ucted at BMW labs be amic behaviour of the a Mini convertible Co	oth on shock absorbe e single component, l	er systems and on	
March 2018-June 2018	Project Engineer – Visiting student BMW Group Munich, Germany					
	Product Engineer ar project.	nd Innovation Techno	ology Consultant withi		b and Follow Me	
	Innovation technology assistant Allianz Global Assistance, Milan, Italy					
April 2015-November 2015	activities were focus	ed on the complete of	tic automATIC machi design of the line flow		al analyses),	
March 2017-May 2017	Project Engineer within the Prematic project "Sapienza" University of Rome, Department of Mechanical and Aerospace Engineering, Rome, Italy					
March 0047 May 0047	Attention was focuse (collaboration with F	ed on the concept de incantieri).	velopment of the on-lesign and the develop	poard systems of resonment of the operative	cue vehicles. e functions	
			ent of Mechanical an		ering, Rome, Italy	
March 2017-June 2017	purpose. The project space debris observ type vehicle.	t involves 6 departm atory, a 3D printer, a	a network of laborator ents and 12 professo real-scale reproducti re Platform project	rs. The labs include a on of a suspension s	a wind gallery, a	

Managerial skills Good attitude to manage projects and lead teams (Remote Lab project) Excellent attitude to work under pressure (Virgo project)



Job-related skills	During my stay at BMW, I demonstrated an excellent attitude towards time management to deliver reports with no delay and to arrange punctually test session run by technicians
Digital skills	Good competence of Microsoft Office tools, Solidworks and Inventor Autodesk, Autocad, Ansys Workbench
Other skills	Fascinated by the automotive world, I had an active role in the Formula SAE team while studying for my degree. I am an eclectic person and I have always been able to manage my studies and job experiences to develop my several interests. My greatest passion is travelling, I like sports, especially those related to a natural environment as climbing, sailing, and hiking. I enjoy attending art exhibitions, ballets, and concerts.
Driving licence	В
ADDITIONAL INFORMATION	
Awards	2019 L'Oréal-Unesco Foundation For Women In Science Italia 2017 Avvio alla Ricerca 2016 Special Breakthrough prize in Fundamental Physics 2016 Gruber Cosmology prize

La sottoscritta autorizza la pubblicazione del presente Curriculum Vitae sul sito Amministrazione Trasparente di Ateneo.