PERSONAL INFORMATION

Giuliano Guarino

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Sex Male | Date of birth 8 Jan 1995 | Nationality Italian

EDUCATION AND TRAINING

01/11/2020–now

PhD Student

Università degli Studi di Palermo, Palermo (Italy)

Phd program in Mechanical, Manufacturing, Management and Aerospace Innovation.
Main topics: laminated composite, shell structure, numerical analysis.

05/09/2016–18/03/2020

M.S. in Aerospace Engineering

Università degli Studi di Palermo, Palermo (Italy)

Thesis

Title: *An Equivalent Single Layer discontinuous Galerkin formulation for composite shells*

The goal of my master's thesis was to develop a Matlab code that performs the study of composite shell structures by means of the discontinuous Galerkin numerical method in the context of the Equivalent Single Layer theories. I plan to publish my findings in an academic peer-reviewed journal.

01/08/2019–30/09/2019

Visiting Scholar

Brown University, Providence (United States)

Awarded a scholarship to collaborate on my master's thesis with Professor Chi Wang Shu, Ph.D., in the Applied Mathematics Department. During my time as a visiting scholar I achieved the competencies on numerical methods, higher order shell theories and nonlinear elasticity.

07/10/2013–13/07/2016

B.S. in Mechanical Engineering (Aerospace Curriculum)

Università degli Studi di Palermo, Palermo (Italy)

WORK EXPERIENCE

03/09/2018–28/02/2019

Intern

European Space Agency, Madrid (Spain)

Selected to a six-month internship position at the European Space Astronomy Centre. The purpose of my project was to analyze the Rosetta/MIDAS data by studing and characterizing the collected comet dust particles data.

PERSONAL SKILLS

Lenguage(s) Italian C2 English C1 Spanish B1

Organisational / managerial skills

Teamwork: acquired through numerous group projects and collaborative efforts at university

Leadership: gained during my project for the course Aircraft Design when I was responsible for coordinating and delegating the design of different parts

Self-discipline: acquired during the development and execution of my thesis

Problem-solving: achieved during my internship at ESA

Target-oriented working: achieved during the limited time I spent at Brown University as a visiting scholar

Digital skills

· Advanced skills in MathWorks Matlab and Simulink.

· Advanced skills in Microsoft Office Word, Excel, and PowerPoint.

· Advanced skills in Autocad and SolidWorks.

· Proficient skills in MSC Nastran and Patran, Ansys and Abaqus.