



Francesca Rossetti

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WORK EXPERIENCE

[01/03/2022 – Current]

Aerodynamics Course Teaching Assistant

Department of Mechanical and Aerospace Engineering, Sapienza University of Rome

University teaching assistant of the course "Aerodynamics" of the Bachelor's Degree in Aerospace Engineering.

EDUCATION AND TRAINING

[01/11/2020 – Current]

Ph.D. in Aeronautics and Space Engineering (XXXVI cycle)

Department of Mechanical and Aerospace Engineering, Sapienza University of Rome

Study of the behavior of cryogenic propellants in space tanks through computational fluid dynamics (CFD) simulations.

[09/2016 – 10/2020]

Master's degree in Space and Astronautical Engineering

Sapienza University of Rome

Final grade: 110/110

Thesis: "Parametric study of the heat transfer enhancement in LRE combustion chambers by longitudinal wall ribs".

[09/2013 – 12/2016]

Bachelor's degree in Aerospace Engineering

Sapienza University of Rome

Final grade: 110/110

Thesis: "Manovre di rendez-vous su una sonda interplanetaria".

[09/2008 – 06/2013]

High School Diploma

Liceo Scientifico Guglielmo Marconi

Address: 00034, Colleferro (RM)

Final grade: 100/100

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

French

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

DIGITAL SKILLS

Microsoft Office | LaTeX | Matlab | Windows | Chemical Equilibrium Applications (CEA)
NASA Software | European Computer Driving Licence – ECDL

CFD Simulations

Ansys Fluent

Meshing Tools

POINTWISE | ANSA

Postprocessing

Tecplot 360

PUBLICATIONS

[2022]

[Stella, F., Cimini, M., Düндar, B., Rossetti, F., Barbagallo, D., Neri, A., & Bernardini, M. "Numerical Analysis of the Free-Fall Behavior of a Space Launcher Fragment." *Journal of Spacecraft and Rockets* \(2022\), p. 1-13.](#)

HONOURS AND AWARDS

[15/10/2013] **Certificate of honor: "Alfiere del Lavoro"** Awarding institution: President of the Italian Republic Giorgio Napolitano

CERTIFICATIONS

[17/05/2022 – 21/06/2022] **Basic introduction to ANSA and META for CFD Certificate**

[02/06/2021] **Tecplot 360 Basics Certification**

[23/10/2020]

Pegasus Certificate - The European Network of excellence in Aerospace Engineering Education

[28/05/2013] **First Certificate in English- Council of Europe Level B2**

[24/08/2012] **Diplôme d'études en langue française (DELFF) B2**

[31/01/2011] **Certificato European Computer Driving Licence (ECDL)**