## Europass Curriculum Vitae

## **Personal information**

Surname(s) / First name(s)Ciottoli Pietro PaoloEmail(s)pietro.ciottoli@gmail.comNationality(-ies)Italian

<b>Present Position</b>	
Mar. 2013 Mar. 2014	Research fellow - DIMA- "Sapienza" University of Rome
Teaching	
Sept 2014-now	<b>Combustion Thesis Supervisor</b> , Master degree in Aeronautical Engineering, Prof. M. Valorani, Sapienza Univ, Rome Italy
Sept 2013-now	<b>Ph.D. Thesis Supervisor</b> , Theoretical and Applied Mechanics, Prof. M. Valorani, Sapienza Univ, Rome Italy
Feb 2015 -May 2015	<b>Teaching assistant in Propulsion Numerical Laboratory</b> , Laboratory Course in Bachelor degree in Aerospace Engineering, Prof. M. Pizzarelli, Sapienza Univ, Rome Italy
Jan 2015	<b>Numerical modeling of LRE thrust chambers</b> , Lecture Series in Master in Space Transportation Systems, Sapienza Univ, Rome Italy
Publications	
April 2015	Numerical investigation of ignition in laminar methane/LOx flamelet at su- percritical pressures, P.E. Lapenna, P.P. Ciottoli, M. Valorani, F. Creta 15th International Conference on Numerical Combustion, April 19-22 2015 Avignon, Fr
March 2015	Numerical investigation of unsteady laminar methane/LOx flamelet at su- percritical pressures, P.E. Lapenna, P.P. Ciottoli, M. Valorani, F. Creta 7th European Combustion Meeting, March 30-April 2 2015 Budapest, Hungary
June 2013	Two-way coupling strategies for Conditional Moment Closure Formula- tion and Large Eddy Simulation in Compressible Reactive Flows, P.P. Ciot- toli, M. Bernardini, S. Pirozzoli, M. Valorani, XXXVI Meeting of the Italian Section of the Combustion Institute, 12-14 June 2013 Procida IT
Apr 2013	A Conditional Moment Closure Formulation for Large Eddy Simulation of Compressible Non-Premixed Turbulent Reactive Flows, P.P. Ciottoli, M. Bernardini, S. Pirozzoli, M. Valorani SIAM Numerical Combustion, 11 April 2013 San Antonio TX
Oct 2012	A Conditional Moment Closure Formulation for Large Eddy Simulation of Compressible Non-Premixed Turbulent Reactive Flows, P.P. Ciottoli, M. Bernardini, S. Pirozzoli, M. Valorani XXXV Meeting of the Italian Section of the Combustion Institute, 10-12 October 2012 Milan IT
Sept 2012	Methane/Air Turbulent Coaxial Jet Flame with Large Eddy Simulation and Conditional Moment Closure, P.P. Ciottoli, M. Valorani, M. Bernar- dini,S. Pirozzoli, European Fluid Mechanics Conference 9, 9-13 September 2012 Uni- versity of Rome "Tor Vergata"

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Work experience	
Sept 2014 - now	LOX/CH4 combustion characterization of liquid rocket engine regenera- tive thrust chamber (AVIO), Development of an LES based CFD code for supercritical reacting flows, PI Prof. M. Valorani, Sapienza Univ, Rome Italy
Jan 2012 - Dec 2013	<b>Hyprob (CIRA)</b> , Numerical simulation of oxygen/methane thrust chamber under supercritical conditions, PI Prof. M. Onofri, Sapienza Univ, Rome Italy
Jan 2010- Dec 2012	<b>ISP1</b> , in-Space Propulsion 1 (ONERA, DLR, EADS), Numerical simulation of oxygen/methane thrust chamber, PI Prof. M. Onofri
Education and Qualifications	
Nov. 2009-Dec 2013	<b>Ph.D.</b> in the program <b>Theoretical and Applied Mechanics</b> in the Department of Mechanical and Aerospace Engineering - University of Rome "La Sapienza"
	<i>Ph.D. Thesis</i> : " <b>Conditional Moment Closure for LES of Compressible Reactive Flows</b> " Supervisor: Dr. M. Valorani Tutor: Prof. C.M. Casciola
July 2013	Short course in Parallel Computing with MPI and OpenMP - CINECA computing centre
Jan 2011	Short course in science code optimization - CASPUR computing centre
Marc 2010	Short course in C programming - CASPUR computing centre
July 2010	Short course in Fortran programming - CASPUR computing centre
June 2012	<b>Combustion in Aero Engines</b> - Von Karman Institute for Fluid Dynamics, 4 to 7 June 2012
Sept . 2009	Master degree in Aeronautical Engineering - "Sapienza" University of Rome
	Attended Classes:
	Gas dynamics
	Computational aerodynamics
	Computational gas dynamics
	Aeroelasticity
	Turbulence
	Airplane aerodynamics
	Aerospace propulsion
	Aeronautical engines
	Engines environmental impact
	Solid rocket motors
	Aerospace structures
	Aeronaulical structures
	Fundamentals of control Flight dynamics
	Mathematical methods in engineering
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	Air traffic control
Feb. 2006	Bachelor degree in Aerospace Engineering - "Sapienza" University of Rome
July 2002	Diploma - Liceo Ginnasio Statale Pilo Albertelli
	In-depth study of: Italian Literature History Philosophy Latin and Ancient Greek Latin and Ancient Greek history and literature History of art
Personal skills and competences	
Mother tongue Other languages	Italian
	English - working knowledge
	French - read and comprehension abilities
Technical skills and competences	Working knowledge with the following OS:
	Windows
	Dos
	Unix-based
	Programming skills in: Fortran, MPI - OpenMP parallel programming Basic knowledge of: C, Python
	Scripting languages - bash, tcsh

