



Matteo Calabresi

Nationality	Italian
Place and date of birth	Rome, Italy, 27 September 1993
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Work experience

Current 02.2020	Software Development Engineer, Fluid Dynamics at AVL EDEM industrial Ph.D. supervised by AVL and City University of London, founded by the Marie Curie actions. Support and development of AVL Tabkin™, focusing on dual-fuel applications.
01.2020 02.2019	Junior Simulation Engineer at AVL Dacolt Contributed in the developing and testing of AVL Tabkin, a chemistry solver which generates look-up tables via the state-of-the-art FGM combustion model.
01.2019 06.2018	CFD Analyst Intern at PLUS s.r.l., Trieste Thermal and aerodynamic simulations using Star-ccm+™ and scripting with Java macros.
05.2018 04.2018	Research assistant at University of Rome – La Sapienza Supported prof. Pirozzoli on DNS pore-resolving simulations of turbulent flow across and above permeable media, which was the topic of my Master thesis.
01-06.2015	Aerodynamics laboratory assistant at University of Rome – La Sapienza

Education

Current 10.2020	Industrial Ph.D. in Combustion Modeling at AVL and City University of London (EDEM) Ph.D. project title: “Tabulated chemistry for dual-fuel combustion simulations”
03.2018 09.2015	M. Sc. in Aeronautical Engineering at University of Rome – La Sapienza 110/110 <i>summa cum laude</i> , “Modelling turbulent flows in porous media”. Major in Aerodynamics, Gas Dynamics, Turbulence.
09.17-02.18	Exchange semester at Technische Universität Braunschweig
09.15-02.16	Exchange semester at Universidad Politecnica de Valencia
09.12-07.15	B. Sc. in Aerospace Engineering at University of Rome – La Sapienza, 109/110

Languages

Italian: mother tongue
English: fluent
Spanish: intermediate
French: basic

Computing skills

Excellent: AVL Fire, Star-ccm+, Python, Hpc computing, Linux system, Microsoft Office, Matlab, parallel-processing, Latex.
Good: Converge, OpenFoam, Fortran, C++, DLR Tau, Tecplot, Java, Mathematica, Gnuplot, R Studio, Dakota, ParaView.
Basic: CATIA, MSC Nastran, Patran, Pointwise, Simulink