

PERSONAL INFORMATION Ettore Fadiga

WORK EXPERIENCE	
September 2015 – September 2017	Tutor/Teacher Formando Percorsi Via Boccaccio 11-13, 44121, Ferrara, Italy Tutoring high school students in scientific subjects. Teaching mathematics and physics courses finalized to university admission tests preparation.
EDUCATION AND TRAINING	
2018–2021	PhD candidate - Numerical methods applied to ORC systems and their components ISCED 6 Department of Engineering (DE), University of Ferrara, Italy My PhD topic regards the numerical analysis of Organic Rankine Cycle (ORC) systems and their components employing open-source software suites. I have worked on the development of numerical methods for modelling real gas properties and studying positive displacement machines.
2019	Visiting PhD student - Computational methods for twin-screw machines Centre for Compressor Technology, City, University of London, London, United Kingdom
2016–2018	 M.S. in Mechanical Engineering Department of Engineering (DE), University of Ferrara, Italy Energy systems Fluid Dynamics and Turbomachinery Composite and polymeric materials Mechanics of materials Dynamics, vibration and signal processing Statistics and Design of Experiments
2018	Tutor - Composite materials course Department of Engineering (DE), University of Ferrara, Italy
2011–2016	B.S. in Mechanical Engineering Department of Engineering (DE), University of Ferrara, Italy



PERSONAL SKILLS									
Mother tongue	Italian								
Other languages	UNDERSTANDING			SPEAKING			WRITING		
	Listening	Reading	Spoke	n interaction	Sp	oken production			
English	C1	C1 C2		B2		B2	C1		
	Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user Common European Framework of Reference for Languages								
Digital competences	SELF-ASSESSMENT								
	Information Processing	Commu	inication	Content crea	tion	Safety	Problem solving		
	Proficient user	Proficie	ent user	Independent	user	Proficient user	Proficient user		
	Digital competences - Self-assessment grid								
Computer skills	 OS: Linux and bash, Microsoft Windows OS Productivity software (Microsoft Office and Open-source tools), LaTex Programming languages: C++, Python, Fortran (basics), Octave CFD software: OpenFOAM, Ansys CFX, Converge, Simerics MP+ CAD software: Solidworks, SALOME 								
Driving licence	В								
PUBLICATIONS									
[1]	N. Casari, E. Fadiga , M. Pinelli, S. Randi, A. Suman, and D. Ziviani. "Investigation of flow characteristics in a single screw expander: A numerical approach". In: <i>Energy</i> 213 (2020).								
[2]	G. Cavazzini, F. Giacomel, G. Ardizzon, N. Casari, E. Fadiga , M. Pinelli, A. Suman and F. Montomoli. "CFD-based optimization of scroll compressor design and uncertainty quantification of the performance under geometrical variations". In: <i>Energy</i> 209 (2020).								
[3]									
[4]									
[5]									
[6]									
[7]	N. Casari, E. Fadiga , M. Pinelli, A. Suman, A. Kovacevic, S. Rane, and D. Ziviani. "Numerical investigation of oil injection in a Roots blower operated as expander". In: <i>IOP Conference Series: Materials Science and Engineering</i> 604.1 (2019).								
[8]									
[9]									

(2020).