Full name: Francesco Carere Date of birth: 23 december 1996 Nationalities: Dutch, Italian

Education

Master Mathematical Sciences	TT: 1;	2019 - 2022
• Specialization: Applied Mathematics with a focus on PDF and entimisation	Utrecht,	The Netherlands
 Specialisation: Applied Mathematics with a focus of TDE and optimisation Master thesis: Numerical KAM theory and backward error analysis for symplectic meth for non-autonomous, time-affine, Hamiltonian ODE 	hods	
Bachelor physics		2015 - 2019
Universiteit Utrecht	Utrecht,	The Netherlands
• Honours profile 2016–2018		
Bachelor thesis (honours profile): <i>Electromagnetism and magnetic monopoles</i>Cum laude		
Bachelor mathematics		2015 - 2019
Universiteit Utrecht	Utrecht,	The Netherlands
• Minor computer sciences (2018–2019)		
• Cum laude		
WORK EXPERIENCE		
Post-degree employee in High Performance Computing		2023–current
CMCC		Lecce
• Parallel programmer		
• Performances optimisation of the SHYFEM-MPI model		
Translator		2019 - 2022
Aves Patent BV		
• Checking various English-Italian translations of patent applications		
Working student		2019
iwell Batterijsystemen		Utrecht
• Data analysis (descriptive statistics) for battery systems using $Pandas$ in $Python$		
Teaching assistant		2018 - 2020
Utrecht University		Utrecht
• For the courses Inleiding analyse in meer variableen, Lineaire algebra and Functies en	reeksen	
Tutor	2013-20	15 & 2018-2021
Private	Ni	jmegen & Utrecht
• To high and middleschool students for e.g. Mathematics, Physics, Chemistry, Latin and	d Dutch	
TRAINING		

MOOC MLWC | ECMWF & iFAB

• Massive online open course for a high-level general introduction, and partial in-depth treatment of cutting-edge machine learning techniques in weather and climate

2023

LIST OF PUBLICATIONS

None

TEACHING

 Teaching assistant Universiteit Utrecht For the course Functies & Reeksen (Functions and Series) For the course Lineaire algebra For the course Inleiding analyse in meer variable (introduction to multivariable analysis) 	2018–2020
Tutor privateFor high school students in mathematics and physics (and other)	2012-2020
TALKS	
Master thesis defense CCSS Utrecht University • On KAM theory for periodic, time-dependent perturbations of discretised Hamiltonian ODE	August 2022
Complexathon CCSS Utrecht University • Presentation of research methods and results of CCSS complexathon project	Februari 2021
Bachelor thesis defense CCSS Utrecht UniversityOn the Dirac and Polyakov-'t Hooft magnetic monopoles	July 2018
 Honours seminar talk on lie groups Utrecht University On irreducible representation of SU(2) on the space of homogeneous polynomials of finite degree n 	March 2018
Honours open talk on pilot-wave dynamics Utrecht UniversityHonours project on pilot-wave dynamics	June 2017
Projects	
 Complexathon CCSS Utrecht University Team leader of a group of 4 Goal: Model reduction of a copmlex chemical network based on graph methods 	2020-2021
LANGUAGES	
• Dutch (native)	
• English (C1)	
• Italian (B2)	
• French (B1)	
Programming and simulation languages	

- Main: C, C#, Matlab, Python, Wolfram Mathematica
- Other: Fortran, LaTeX, MulticoreBSP for C