

Curriculum vitae



PERSONAL INFORMATION Vincenzo de Toma

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- Skype vincenzo.detoma

Gender Male | Date of birth 9 July 1992 | Nationality Italian

CURRENT POSITION

PhD Student (Physics)

I am at the first of a three-year doctoral program, working in the field of fluid dynamics, turbulence and oceanography, collaborating with Luca Biferale at University of Rome and Vincenzo Artale at Enea (research center in Frascati(RM, Italy))

RESEARCH INTERESTS

Nonlinear Phenomena Statistical Mechanics Computer Science **Field Theories**

Nonlinear Waves and Solitons, Turbulence, Dynamical & Descriptive Physical Oceanography Phase Transition and Critical Phenomena, Ising Model, Glasses, Jamming, Complex Systems Rudiment of Machine Learning, Constraint Satisfaction Problems, Optimization General Relativity, Quantum Electrodynamics, Standard Model

EDUCATION AND TRAINING

1st Nov 2018 - present Research Project External Supervisor University

PhD in Physics 'Study of heat fluxes in the ocean - project falls into the european Copernicus C3S_511' Supervisor Luca Biferale (Tor Vergata)

> Vincenzo Artale (Enea) Tor Vergata, Università di Roma, Italy

2015–2018 Master Degree in Physics

Thesis Title

'Study of bidimensional hard disks' configurations at jamming', Development of a C++ Simulation with GLPK Advisor Giorgio Parisi University La Sapienza, Università degli studi di Roma, Italy

2012–2015 Bachelor of Science in Physics

Thesis Title 'Two-Dimensional Ising model and Grassmann Variables', Compilative study of the solution of the 2-d Ising model

Advisor Andrea Crisanti

University La Sapienza, Università degli studi di Roma, Italy

2006-2011

Diploma di Maturità Classica



PERSONAL SKILLS						
Mother tongue	Italian					
Other languages	UNDERSTANDING		SPEAKING		ING	WRITING
	Listening F	Reading	Spoke	n interaction	Spoken production	
English	C1	C2		C1	C1	C1
	Current having no proficiency certification					
	Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user Common European Framework of Reference for Languages					
Communication skills Self-Organisational skills	 team work: I have worked in various types of teams from research teams at university to the team formed by my Dojo. Sometimes I supply my Sensei teaching aikido. mediating skills: I work both with childs, giving them lessons to help them making their homeworks, and also, in the Dojo, or in my Master Degree Thesis experience, with group of people older than me. simple-explanator: Once I master an argument, I can explain to "dummies", making everyday-life examples. I like to respect my deadlines: both the ones I gave myself, both the ones gave me from others. I'm a hard worker, with a passion for problems, like every good physicist should be. 					
	 When I have to study a subject I like to search on every book I can to understand well and fast. 					
Digital competences	SELF-ASSESSMENT					
	Information Processing	Commu	inication	Content creation	on Safety	Problem solving
	Proficient user	Proficie	ent user	Proficient use	r Independent user	Independent user
	Digital competences - Self-assessment grid					
Computer skills	 can manage different browser and e-mail clients, like Mozilla Firefox, Safari, Chrome, Midori, Mozilla Thunderbird, Microsoft Outlook; competent with most Microsoft Office, LibreOffice, LaTeX; good knowledge of many editors: Emacs, Gedit, Kate, Leafpad, Notepad; experience with C, C++, Python; good knowledge of operating system as Microsoft Windows 10, MacOs, Linux (Fedora, Mint, OpenSuse, Ubuntu, Raspbian, Scientific Linux); good knowledge of software for interpolating and organise data: SciDavis, Origin, Gnuplot, Panoply; can treat large dataset format netCDF using Python; rough knowledge of MatLab, Octave; I can also change parts in a Desktop computer, or a Notebook; 					
DIY Skills	I can make basic electrical circuits, connecting DC motors, making DAC, ADC, working with leds, RLC RC, LC circuits, and programming them with the Raspberry Pi 3, soldering wires, in general opening broken things and trying to fix them					
Certifications	European Computer Driver License - ECDL Base (I'm actually giving exams to take also the ECDL Full Standard)					
Driving licence	В					
ADDITIONAL INFORMATION						
Resulting as eligible in rankings for PhD at	 Università degli Studi di Roma 'Roma 3' XXXIV Cycle; Università degli Studi di Roma 'Tor Vergata' XXXIV Cycle; 					



Curriculum vitae

Conferences, Workshop & Meetings (audience)

Disordered Serendipity: A Glassy Path to Discovery - *Giorgio Parisi 70's birthday confer ence.* Sapienza Università di Roma, Italy, 19-22 September 2018

C3S_511 Scientific Evaluation of the CDS ECVs - ECMWF Annual Meeting "Libreria Caffè TOMO" - via degli Etruschi 4, Roma, 21st - 23rd November 2018

Winter School in Physics and Mathematics of Turbulent Flows at Different Scales - Les Houches School of Physics "Ecòle de Physique Les Houches" - Les Houches, France, 24th February - 1st March 2019

ESA Consultation for a Regional Initiative over the Mediterranean ESA MED 2018 - *European Space Agency* ESA/ESRIN - Via Galileo Galilei snc, 00044, Frascati, Italy, 11-12th December, 2018

WOC 2019 - World Ocean Circulation user consultation meeting - *European Space Agency* ESA/ESRIN - Via Galileo Galilei snc, 00044, Frascati, Italy, 21-22th February, 2019

Workshop on Conservation Principles, Data and uncertainties in atmosphere ocean modeling - *Griebnitzsee Campus* Griebnitzsee Campus, Potsdam 2-4th April, 2019

Sentinel 3 Validation Team Meeting - European Space Agency ESA/ESRIN - Via Galileo Galilei snc, 00044, Frascati, Italy, 07-09th May, 2019

Introduction to Parallel Computing with MPI and OpenMP - *Cineca HPC courses* Cineca - Via dei Tizi 6, Rome, Italy, 27-29th May, 2019

Summer school on parallel computing - *Cineca HPC courses* Cineca - Via dei Tizi 6, Rome, Italy, 01-12th July, 2019

Contributor to a talk Variability and stability of AMOC from recent ORAS5-ECMWF reanalysis - THEMES 2019 Opening talk by Vincenzo Artale Università Ca' Foscari, Venice, 27-29th November