Sapienza PhD in ICT

Doctoral program in Information and Communications Technologies at Sapienza Università di Roma, Rome, Italy

First Year Doctoral Program Form

LAST NAME	Marinelli
NAME	Valerio
CURRICULUM	Radar and Remote Sensing
DOCTORAL CYCLE	XXXII

ADVANCED COURSES: 12 CREDIT FORMATION UNITS (CFU)[1]
Only courses/schools providing a final verification test with pass/fail outcome certified by instructor can be included here.

Title	Type	Duration / period	CFU[2]	Motivation for selection
Hands-on Fitting and Statistical Tools for Data Analysis	PhD Course (Univ. Torino)	16 hrs, April 2017	4	Thanks to this course, I will learn how to use advanced fitting and statistical tools that will be useful for analysing large datasets coming from several instruments.
Time Series Analysis	PhD Course (Univ. "Roma Tre")	24 hrs, May 2017	3	Accurate analysis on large datasets of time-dependent quantities requires a deep knowledge on how to extract valuable information, such course is designed to learn advanced theories and tools.
Aerosols and Climate - Atmospheric Radiation and Interaction with Aerosols	PhD Course (Univ. "Roma Tre")	16 hrs, May 2017	2	This course is particularly important for me, as it is focused on the main topic of my doctoral project.
PRINCE2 Foundation	Course	24 hrs, 19-21 June 2017	6	The course focuses on the Project Management tool "PRINCE2" and will lead to the acquisition of an important international certification.
Total CFU			15	

SEMINARS AND LABORATORY ACTIVITIES: 6 CFU[3]

Activity	Type	Duration / period	CFU[4]	Motivation for selection
La scrittura tecnico-scientifica	Short course	24 hrs, 24-25 Jan, 7-8 Feb 2017	4	The course aims at providing fundamental elements of the technical and scientific writing which will enhance the quality level of my manuscripts and presentations.
XXVI Giornate di studio sui Rivelatori INFN – Scuola Alta Formazione CINFAI http://gsr.to.infn.it	Seminars	13-17 February 2017	5	This training school is focused on particle/radiation detectors and their applications, including the environmental and atmospheric sciences. Given the scheduled talks of this edition, I think this one-week school to be significant for my work, in particular for discussing with experts in light detection.
Total CFU			9	

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1   Please insert lines as required/appropriate, and for each line complete each column of the Table.
2   Indicate here the CFUs that can be accounted for as a result of the successful completion of the activity; for Master Degree courses, assume 1 CFU = 8 teaching hours + 12 homework/study hours, for a total of 20 hours. This rule can be slightly adjusted for other types of courses/activities (e.g., PhD courses may require slightly less hours per CFU)
3   Please insert lines as required/appropriate, and for each line complete each column of the Table.
4   Indicate here the CFUs that can be accounted for as a result of the successful completion of the activity; as a rule of thumb, assume 1 CFU = 20 working hours.

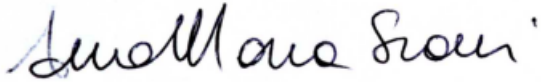## ADDITIONAL INDEPENDENT FORMATION AND RESEARCH ACTIVITIES: 6 CFU[5]
Indicate activities that extend and complement the mandatory activities listed above

Activity	Type	Duration / period	CFU[6]	Motivation for selection
Participation to the European Geosciences Union General Assembly 2017 (EGU2017)	Conference and workshops	23-28 April 2017	>6	The EGU assembly is one of the most world-important meetings covering geosciences. In this occasion, I will present preliminary results of my work that I'm going to discuss with researchers involved in this field.
Total CFU			>6	

RESEARCH ACTIVITY: 36 CFU

Research area	Remote sensing
Research topic	Development of new methodologies for ground-based remote sensing of atmospheric aerosol properties
Framework of the proposed research topic	This research project is focused on developing both cutting edge data analysis approach and instrumentation for assessing aerosols radiative forcing effect at ground.
Research environment	For the first year of the doctoral program, I will be involved in many of the ARPA Valle d'Aosta activities, including the contribution to a research unit focused on developing new kind of instrumentation for sun and sky radiative properties measurements. As just outlined above, even as a first-year PhD student I will also have the opportunity to present two posters at EGU2017, giving me the chance to possibly increase the network of my collaborations.

FACULTY MENTOR (TUTOR OR SUPERVISOR)

Prof.	Anna Maria Siani
Supervisor signature for approval	*[signature: Anna Maria Siani]*

Signature of Doctoral student

[signature: Valerio Marmello]

Date
07/03/2017

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5   Please insert lines as required/appropriate, and for each line complete each column of the Table.
6   Indicate here the CFUs that can be accounted for as a result of the successful completion of the activity; as a rule of thumb, assume 1 CFU = 20 working hours.