



Europass Curriculum Vitae



Personal information

First name / Surname **Valerio Poggiali**
E-mail Valerio.poggiali@uniroma1.it
Nationality Italian
Date of birth 1-Aug-1983
Gender Male
"Albo degli Ingegneri della Provincia di Roma" registration no. A32990
Section Ingegnerie dell'informazione
From 10/11/2011

WORK EXPERIENCE

- Dates (from – to) **April 2011-Today**
- Name and address of employer Sapienza Università di Roma – Dipartimento di Elettronica e Telecomunicazioni (DIET)
- Type of business or sector Remote Sensing
- Occupation or position held Assistant Researcher of Prof. R. Seu and Prof. G. Picardi at the RADAR Laboratory.
- Main activities and responsibilities PhD student at DIET Radar Labs and Cassini RADAR team associate member;
Titan seas depth&dunes height measurements by means of Cassini RADAR altimeter data analysis;
SAR-Altimeter data fusion for Titan surface mapping;
Radar echo signal simulators development (Matlab);
Presentations held at several international conferences hosted by NASA-JPL, ASI and SPIE.

<ul style="list-style-type: none"> • Dates (from – to) 	From November 2011 to Genuary 2012
<ul style="list-style-type: none"> • Name and address of employer 	Tieto Italy S.p.A. for Ericsson
<ul style="list-style-type: none"> • Type of business or sector 	Telecommunications, Mobile Networks.
<ul style="list-style-type: none"> • Occupation or position held 	Stage in Ericsson offices in Genoa and Milan.
<ul style="list-style-type: none"> • Main activities and responsibilities 	<p><i>RF design:</i> Radio Planning of GSM-UMTS Radio Wifi, Wimax networks; Survey for site selection; Preparing reports for design, configuration and materials orders; Database population for sites inventory and configuration; Cell data preparation.</p> <p><i>MW design:</i> Radio links design; Los Survey for the selection of sites to be connected in MW (PDH / SDH); Preparing reports for design and configuration; Databases population for inventory and materials for links in MW orders.</p> <p><i>Provisioning MW:</i> Work Orders construction for routing between nodes of the UMTS network and for enabling, disabling and the rerouting of circuits.</p>

Education and training

<p>Dates</p>	From February 2008 to March 2011.
<p>Title of qualification awarded</p>	Master in Telecommunications Engineering with aerospace specialization. Thesis: "High resolution processing of Cassini altimetric data", carried out at LaSapienza DIET (ex Infocom) department and Thales Alenia Space labs.
<p>Principal subjects/occupational skills covered</p>	Satellite communication systems, Radiolocation and satellite navigation, Sensors for remote sensing, Space-based radar systems, Antennas, Electrical systems for space, Air traffic control, Image processing, Neural networks, Mobile communications, Multimedia communications..
<p>Name and type of organisation providing education and training</p>	Sapienza Università di Roma – Dipartimento di Elettronica e Telecomunicazioni (DIET)
<p>Level in national or international classification</p>	Master's degree in Telecommunications Engineering
<p>Dates</p>	From October 2002 to February 2008
<p>Title of qualification awarded</p>	Graduated in Telecommunications Engineering Thesis title: "The transport layer security protocol (TLS)"
<p>Principal subjects/occupational skills covered</p>	Specialization in data transmission: C and Java programming, Internet, Mobile networks, Signal theory, Digital signal processing, Electronic systems, Remote Sensing Systems, Operating systems, Computer architectures, Distributed systems, Economics and business administration, Management, Mathematical Analysis, Physics, Automatic control systems.
<p>Name and type of organisation providing education and training</p>	University of Rome La Sapienza - Bachelor degree in Telecommunications Engineering
<p>Level in national or international classification</p>	Bachelor Degree in Telecommunications Engineering
<p>Dates (from – to)</p>	From September 1998 to July 2002
<p>Name and type of organisation providing education and training</p>	Liceo Scientifico Statale Antonio Labriola Via Capo Sperone, 56, 00122, Rome
<p>Title of qualification awarded</p>	High school diploma with an overall mark of 100 out of 100

Dates (from - to)	From 24 January 2011 to 28 January 2011
Type of educational activity of the event	POLINSAR 2011 Workshop
Location	ESA ESRIN, Frascati, Italy
Principal subjects / occupational skills covered	SAR remote sensing applications for earth observing
Dates (from - to)	From 20 April 2009 to 23 April 2009
Type of educational activity of the event	SCOS2K Workshop
Location	ESA ESOC, Darmstadt, Germany
Principal subjects / occupational skills covered	Software package SCOS2000 and visit to mission control centers of ESA missions .
Date	October 2010
Type of educational activity	ArcGis ECDL Professional Certification.
Location of the event	Sapienza Università di Roma
Principal subjects / occupational skills covered	Geographic information systems
Date	From 12 to 16 September 2011
Type of educational activity	3rd advanced training course on land remote sensing
Dates (from - to)	Kraków, Poland. The course will be hosted by Institute of Geography and Spatial Management, Jagiellonian University and organised by ESA in co-operation with co-sponsoring institutions.
Type of educational activity of the event	Practicals using ESA toolboxes (BEAM, NEST and POLSARPRO) and complimentary data sets; EO data processing and product demonstration for land resources monitoring; Theoretical fundamentals of SAR, Optical and Thermal remote sensing, focussing on exploitation of ESA and Third Party missions and products; EO land applications lectures (urban planning, land cover, hazards, terrain motion, forest bio-physical retrievals and regional water balance).
Location	
Principal subjects / occupational skills covered	
Personal skills and competences	
Mother tongue	Italian
Other language	English (Cambridge PET certification acquired on 21-May-2010)

Self-assessment European level (*)	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production			
	B2	Independent user	C1	Proficient user	B2	Independent user	B2	Independent user	B2	Independent user

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences Remarkable experience in group working, developed within the active research team of DIET (ex-Infocom). A group pursuing several research topics in remote sensing, starting from the successful design of radar sounders orbiting around Mars to the design of radars for the future exploration of the external solar system. Furthermore, I am a member of The British Interplanetary Society.

Computer skills and competences Excellent knowledge of Microsoft Windows, Microsoft Office and Open Office.
 Good knowledge of software package ENVI 4.5, BEAM v4.8, NEST v4a, POLSARPRO for remote sensors images analysis.
 ArcGis ECDL Professional Licence acquired.
 Excellent knowledge of software packages for engineers: Matlab (Simulink too) and Pspice.
 Good knowledge of ESA software package SCOS2000, for transmission and reception of remote controls and telemetries by ESA satellites.
 Basic knowledge of MapInfo, TEMS, Asset, Connect and N&SYS for RF and MW design.
 Academic knowledge of programming languages C, SQL, Java and UML.
 Industrial certifications Cisco CNNA1 and 2 obtained.

Driving licence Italian driving license of type B.

Publications "Synergy of Cassini SAR and altimeter acquisitions for the retrieval of dune field characteristics on Titan", Poggiali V., Mastrogiuseppe M., Callegari M., Martufi R., Seu R., Casarano D., Pasolli L., Notarnicola C., Proc. SPIE 8536, SAR Image Analysis, Modeling, and Techniques XII, 853608 (November 21, 2012).

"The bathymetry of a Titan sea ", Mastrogiuseppe, M., Poggiali, V., et al., Geophys. Res. Lett., 41, 1432–1437, 2014.

"Titan dune heights retrieval by using Cassini Radar Altimeter", Mastrogiuseppe M., Poggiali V., et al., Icarus, Vol. 230, 191–197, 2014.

"Advanced Processing of Altimetry Cassini Radar Data", Mastrogiuseppe M., Poggiali V., Seu R., Picardi G., IEEE Xplore - 3rd Microwaves, Radar and Remote Sensing Symposium (MRRS-2011) Proceedings, Kiev, Ukraine, Aug. 25-27, 2011.