Curriculum Vitae



Personal information

First name(s) / Linda DIMARE

Surname(s)		
Address(es)	63, via Mario Giuntini, 56023, Cascina, Pisa, Italy	
Telephone(s)	+39 0507519607	
Fax(es)	+39 050754268	
E-mail	dimare@spacedys.com	
Nationality	ITALIAN	
Date of birth	06.05.1981	
Gender	Female	
Desired employment / Occupational field	Solution Development & Manager	
Work experience		
Dates	May 2011 onwards	
Occupation or position held	Associate and member of the board of directors of the SpaceDyS company	
Main activities and responsibilities	 Administration Software development for the radio-science experiment of the NASA JUNO mission to Jupiter 	
Name and address of employer	SpaceDyS s.r.l., Polo Tecnologico – Incubatore d'impresa, 63, via Mario Giuntini, 56023, Cascina, Pisa, Italy	
Type of business or sector	Research, software development, education and consultancy in the fields of astronomy, mathematics and physics.	
Dates	May 2010 onwards	
Occupation or position held	Post-Doc Researcher at the University of Pisa: member of the Celestial Mechanics Group at the Department of Mathematics	
Main activities and responsibilities	Orbit determination of Space Debris: – development of innovative orbit determination algorithms; – implementation of the new algorithms in Fortran code; – large scale simulations.	
Name and address of	Department of Mathematics, University of Pisa, 5, largo Bruno Pontecorvo, 56127, Pisa, Italy	

Type of business or sector Education and Research

Type of busiliess of sector		Rescuren			
Education and training					
Dates	From November 2005 to January 2010				
Title of qualification awarded	Ph.D. in Mathematics				
Principal subjects/occupational skills covered	 Celestial Mechanics: the problem of orbit determination for Asteroids and Space Debris; the non-integrability of the N-center problem, hyperbolic dynamics and chaos. 				
Name and type of organisation providing education and training	Department of Mathematics, University of Rome "Sapienza", Italy				
Dates	From October 2000 to March 2005				
Title of qualification awarded	Master's degree (Italian four year Laurea) in Mathematics with 110/110 cum Laude				
Principal subjects/occupational skills covered	Algebra and Geometry. Graduation thesis in the field of Algebraic Geometry entitled "Superfici algebriche rigate con il massimo numero di nodi (Ruled algebraic surfaces with maximum number of nodes)".				
Name and type of organisation providing education and training	Department of Mathematics, University of Pisa, Italy. Fellowship paid by INDAM (National Institute of High Mathematics Francesco Severi).				
Personal skills and competences					
Mother tongue(s)	Italian				
Other language(s)					
Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
	(*) <u>Common Euro</u>	pean Framewo	ork of Reference	e for Languages	2

Social skills and competences	 team spirit, developed by studying and doing research with other people; ability to stay in a multicultural environment, gained through the participation to international conferences;
Organisational skills and competences	 sense of organisation acquired through self organization of my studies and research; ability to find solutions to problems, acquired through my scientific education;
Computer skills and competences	 good knowledge of OrbFit tool for orbit determination good knowledge of Fortran scientific programming language basic command of MATLAB, GNU Octave and Maple tools basic knowledge of Bash shell good knowledge of LaTeX language and document preparation system good command of Microsoft Office and Open Office tools

Additional	Publications on international refereed journals					
information	 L. Dimare, "Chaotic quasi-collision trajectories in the 3-centre problem", Celest. Mech. Dyn. Astr. vol. 107/4, pp. 427-449 					
	(2010).					
	2. G.F. Gronchi, L. Dimare, A. Milani, "Orbit determination with					
	the two- body integrals", Celest. Mech. Dyn. Astr. vol.107/3,					
	pp. 299-318 (2010).					
	 G.F. Gronchi, D. Farnocchia, and L. Dimare, "Orbit determination with the two-body integrals II," Celest. Mech. 					
	Dyn. Astr. vol. 110/3, pp. 257-270 (2011).					
	4. A. Milani, D. Farnocchia, L. Dimare, A. Rossi, F. Bernardi,					
	"Innovative observing strategy and orbit determination for					
	Low Earth Orbit Space Debris," submitted.					
	Publications on Proceedings					
	5. A. Milani, G.F. Gronchi, D. Farnocchia, G. Tommei, L. Dimare,					
	"Optimization of space surveillance resources by innovative					
	preliminary orbit methods", Proceedings of the fifth European Conference on Space Debris, 30 Marzo - 2 Aprile 2009,					
	Darmstadt, Germania, SP-672 on CD-ROM.					
	6. L. Dimare, A. Milani, D. Farnocchia, A. Rossi, and F. Bernardi,					
	"Innovative orbit determination algorithms for a complete					
	Debris catalog in the upper LEO region", Proceedings of the					
	European Space Surveillance Conference WPP-321, 7-9 June 2011, Madrid, Spain.					
	7. L. Cibin, M. Chiarini, A. Bertoli, F. Villa, L. Dimare, D.					
	Farnocchia, F. Bernardi, A. Milani, G.M. Pinna, I. Zayer, P.M.					
	Besso, R. Ragazzoni, and A. Rossi "A dynamic observation					
	concept as a key point for an enhanced SSA optical network",					
	Proceedings of the European Space Surveillance Conference WPP-321, 7-9 June 2011, Madrid, Spain.					
	8. L. Dimare, D. Farnocchia, G.F. Gronchi, A. Milani, F. Bernardi,					
	and A. Rossi "Innovative system of very wide field optical					
	sensors for space surveillance in the LEO region", Proceedings					
	of the Advanced Maui Optical and Space Surveillance					
	Technologies Conference (AMOS), 13-16 September 2011,					
	Maui, Hawaii.					
	Collaboration to research projects					
	I collaborated to the ESA project "Space Situational Awareness"					
	(SSA), by working for the ESA/ESOC contract "System Support for					
	SSA Requirements Analysis - Part I: Feasibility study of an innovative					
	system for debris surveillance in LEO regime".					
	Memberships					
	1. Italian Society for Chaos and Complexity (SICC), from 2010.					
	2. National Group of Mathematical Physics (GNFM), from 2010.					
	3. Italian Society of Celestial Mechanics and Astrodynamics					
	(SIMCA), ordinary member from 16 th March 2009.					
	 Association of Italian Ph. D. Students and Ph. D.s (ADI), from 24th September 2008. 					
	Teaching activity					
	A.Y. 2007/2008 and 2008/2009:					
	1. Support teaching for the course "Rational Mechanics", degree					
	course in Mathematics, Faculty of Science, University of Rome "Sapienza".					
	2. Support teaching for the course "Mathematics and computer					
	science methods in Biology", degree course in Biology, Faculty of					
	Science, University of Rome "Sapienza".					

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