

PERSONAL INFORMATION

Patrizia PIERSIGILLI

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in <https://www.linkedin.com/in/patrizia-p-58875b44?trk=contact-info>

R² <https://www.researchgate.net/profile/Patrizia-Piersigilli>

Nationality Italian

ACTUAL POSITION / JOB
QUALIFICATION

PhD Student in Energy and Environment

ACADEMIC BACKGROUND

09/09/2008

State exam and professional engineering licensing

Sapienza University of Rome

28/05/2007

Master's Degree in Aerospace Engineering (Vecchio Ordinamento)

Sapienza University of Rome

I conducted my research and wrote my thesis at the Department of Mechanical Engineering, McGill University, Montreal, QC, Canada. Thesis supervisors: prof. F. Graziani, prof. A. K. Misra, prof. I. Sharf. Thesis title "Reactionless Capture of a Satellite by a Two Degree-Of-Freedom Manipulator".

ORDER OF THE ENGINEERS
OF ROME PROVINCE

07/2023 - Present

Member of the Commission for equal opportunities: implementation, PNRR and new regulations.

The Commission aims at developing proposal for interventions and policies in order to remove any form of discrimination and to valorize the contribution that all the engineers of the order may give to our profession.

PROFESSIONAL MAIN
UPDATING

11/2024

Scholarship Winner to the PhD Programme

Sapienza university of Rome – Energy and Environment – 40th cycle)

04/2024

Leaky Waves and Periodic Structures for Antenna Applications

European School of Antennas and Propagation (ESoA) .Full participation achievement of this intense 3-day Course.

01/07/2013 – 08/10/2013

Marketing comunicazione e media digitale

Il Sole 24 ORE Formazione ed Eventi.

05/2009

XXV European Master on Community Funding

CEERNT (Centre Européen d'Etude et de Recherche et Nouvelles Technologies), Rome and Bruxelles.

The Course has been part of my training activities while working at the Department of Aerospace and Astronautical Engineering, Sapienza University of Rome.

RESEARCH ACTIVITY

RESEARCH FIELD

Research Studies in the area of spacecraft dynamics particularly the dynamics of capture of a satellite by a space manipulator.

10/2005 – 04/2007

Academic Trainee

Space Flight Dynamics Laboratory of the Department of Mechanical Engineering, McGill University, Montreal, QC, Canada.

I have been part of the Spacecraft Dynamics research group and focused my research activity on manipulator-assisted capture of satellites developing several algorithms to determine the trajectories of the end-effector of the manipulator that minimize the attitude disturbance on the base spacecraft.

My research work and professional profile was chosen for the Highly Qualified Personnel (HQP) grant of the Natural Sciences and Engineering Research Council (NSERC) of Canada.

01/2006 – 04/2006

Courses attended

Department of Mechanical Engineering, McGill University, Montreal, QC, Canada. PhD Courses attended during my research activity at McGill:

- "Advanced Dynamics", prof. Josef Kovecses.
- "Mechanics of Robotic System", Prof. Hamid D. Taghirad

Immediate outcomes

2010

- Journal article:
P. Piersigilli, I. Sharf, A. K. Misra, "Reactionless capture of a satellite by a two degree-of-freedom manipulator". Acta Astronautica, Volume 66, Issue 1-2 2010, pages 183-192.
(40 citations, Scopus index)

29/09/2008 – 03/10/2008

- Congress participation and conference proceeding:
59th International Astronautical Congress, Glasgow, UK.
On behalf of McGill University I presented the results of my research work.

RELEVANT EXPERIENCE

2010 - 2021

Peer Review

Peer reviewing activity mostly for Acta Astronautica.

2010 - 2012

Systems design and planning

GIUA&Partners, Viale dei Parioli 59, 00197. Rome.

I was in charge of the design and planning of the ventilation and fire protection systems and of the emergency signs of road tunnels for a project in the regions of Umbria and Marche (Quadrilatero Marche - Umbria).

03/2009 – 07/2009

First International LARES Science Workshop

School of Aerospace Engineering of Rome, Sapienza University of Rome.

I have been part of the team organizing the workshop held in Rome on July 3,4 2009.

2009

LARES Project and Mission

Department of Aerospace and Astronautical Engineering, Sapienza University of Rome.

Reviewing activity of several articles in the field of gravitomagnetism.

Editorial support for the Wheeler book: "General Relativity and John Archibald Wheeler" I. Ciufolini and R. Matzner (Springer 2010).

06/2004 Launch of UniSat-3 from Baikonur

UniSat3 has been the third student-made microsatellite designed and integrated by students participating in the UNISAT Program of the School of Aerospace Engineering of Rome.

SCIENTIFIC PUBLICATIONS

- 2010** P. Piersigilli, I. Sharf, A. K. Misra, "Reactionless capture of a satellite by a two degree-of-freedom manipulator". Acta Astronautica, Volume 66, Issue 1-2 2010, pages 183-192. (40 citations).
<https://www.sciencedirect.com/science/article/abs/pii/S0094576509003361?via=ihub>
- 2009** A. Paolozzi, I. Ciufolini, C. Paris, L. Acquaroli, P. Piersigilli, A. Gabrielli, "Test on LARES Separation System Components Using Fiber Optic Sensor" Conference Proceedings, XX National Conference AIDAA.

PERSONAL SKILLS

Programming Skills Advanced: MATLAB,
 Work experience: LaTeX, Mc4, Solvent

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Interaction	Production	
English	C2	C2	C2	C2	C2
German	B1	B1	B1	B1	B1
French	A2	A2	A2	A2	A1
Centre Culturel Saint-louis de France					

[Common European Framework for Language Skills](#)

Other skills Team working, complex problem solving and quick learning, algorithm development, autonomous capability of developing project.

STARTUP AND FINANCIAL EXPERIENCE

12/2017 – 05/2018 Innovative Startup – 1519 Behind Italian Beauty

The Chamber of Commerce of Rome with the positive opinion of the Minister of Enterprises and Made in Italy, MISE at the time, declared that the company being established, 1519 Behind Italian Beauty, had all the requirements of an innovative startup.

2014 -2016 Trading Activity

Trading activity also in high volatility.

2008 **Alleanza Assicurazioni S.p.A.**

Ensurance consultant regularly registered at the Institute of Control on Ensurance Activity, ISVAP at the time, now IVASS.

CONFERENCES & TRAINING DAYS

14/03/2019 **La protezione della Proprietà Intellettuale in Cina: strumenti a supporto delle PMI**
UIBM, Sala Pubblico, Via di San Basilio, 14, Roma

05/12/2018 **Difendere le eccellenze italiane promuovere la crescita. La contraffazione, cifre nel mercato nazionale e globale. - Presentazione degli Studi Mise-Censis e Mise-Ocse 2018.**
MISE, Sala del Parlamentino, Via Veneto 33, Roma.

03/05/2018 **La forza del cambiamento: le donne nell'innovazione e nella creatività**
UIBM, Sala Pubblico, Via di San Basilio, 14, Roma

20/04/2018 **Giornata di Training: introduzione all'uso della piattaforma ePCT per il deposito telematico delle domande internazionali di brevetto.**
UIBM, Sala Pubblico, Via di San Basilio, 14, Roma

19/04/2018 **Mediazione e Sistemi ADR nell'ambito del diritto industriale: conciliazione, arbitrato, mediazione.**
UIBM, Sala Pubblico, Via di San Basilio, 14, Roma

05/04/2018 **Design: un parallelo tra i Sistemi Comunitario, Internazionale e US.**
UIBM, Sala Pubblico, Via di San Basilio, 14, Roma

14/03/2018 **IP for Business Training**
Organizzato da UIBM e EPO (European Patent Office) in collaborazione con l'EU IP (European Intellectual Property) Helpdesk.
UIBM, Sala Pubblico, Via di San Basilio, 14, Roma

07/02/2018 **Ricerca e Innovazione in Italia e in Europa – Le Segnature**
Accademia Nazionale dei Lincei, Palazzo Corsini, Via della Lungara 10, Roma

12/01/2018 **Algoritmi e Digital Economy tra innovazione e concorrenza**
UIBM, Sala Pubblico, Via di San Basilio, 14, Roma

18/10/2017 **Unicità ed Eccellenza. Un viaggio nel cuore dell'Industria Italiana.**
Palazzina dell'auditorio dell'Accademia Nazionale dei Lincei, Via della Lungara 230, Roma
Proiezione del film realizzato dalla Fondazione Edison e da Anima - Federazione della Meccanica Varia ed Affine di Confindustria, Confindustria Emilia Romagna, Industria Treviso e Unione degli Industriali della provincia di Varese.

26/09/2017 – 29/09/2017 **NanoInnovation Conference & Exhibition**
Faculty of Civil and Industrial Engineering, Sapienza University of Rome. Rome, Italy.

09/07/2017 – 12/07/2017 **IEEE International Conference on Fuzzy Systems**
Royal Continental Hotel, Naples, Italy

Proof of participation may be provided.

Autorizzo l'uso dei dati del presente CV per i fini consentiti ai sensi del D.Lgs 196/03.