PERSONAL INFORMATION

Emanuele Maria Latorre

📍 Via del Mirto, 5 - 00071 Pomezia (Rome), Italy

📱 +39 331 88 58 266   ☎ +39 06 914 52 53

✉ elatorre@divulgazionelibera.it

🌐 https://www.divulgazionelibera.it

in https://www.linkedin.com/in/emanuele-maria-latorre

Gender Male | Date of birth 25 July 1976 | Nationality Italian

WORK EXPERIENCE

2021 – Present
Computerized System & Validation Specialist - Data Integrity SPOC

Menarini Biotech, Via Tito Speri,12 - Pomezia (Italy)

Activity. I'm working in the documented process to assuring that a computerized system does exactly what it is designed to do in a consistent and reproducible manner. The validation process begins with the system proposal/requirements definition and continues until system retirement and retention of the e-records based on regulatory rules. I'm validate (through Validation Plan/Risk Analysis/URS/DT/DQ/IQ/OQ/PQ/Validation Report/Traceability Matrix/Disaster Recovery/Periodic Review/Final Report/Assessment/Data Integrity Review: audit trail, access, data review according to a periodic plan) laboratory instruments, production line instruments and utilities (refrigerator, freezer, autoclave, pharma TOC, bioreactor). I am writing software to monitor and check the validation status of laboratory instruments and to validate spreadsheets (excel) for laboratory analysts.

Technical Enviroment. Windows, GNU/Linux, Python, VBA, Visual Basic, LAMP, Office, Java, HTML 5, PHP, Scada, Siemens (Desigo), Sartorius (Biobrain), Empower, Unicorn, PerkinElmer, Tecan, Charles River, Bio-Rad, Cell Banks, Fedegari, Angelini (hoods), DCS, Beckman Coulter, Palltronic, Sartocheck, Sievers, Suez, Shimadzu, Mettler Toledo (pH-meter, balance, LabX, methods cration), ABB, CFR-21, GAMP, EudraLex, Documentum, TrackWise, V-model validation.

2011 – 2020
IT Systems Engineer

Esseti Farmaceutici, Via Campobello, 15 - Pomezia (Italy)

Activity. I have managed, monitored and controlled the entire multi-site IT infrastructure, ensuring continuity of service, protection of IT data, data integrity, state of the equipment, reliability, security and updating of the servers. I have controlled and ensured the company's strategic services: file sharing, smart working, multimedia activities, communication. I have developed and implemented the migration of clients PC from Windows to Linux, through modern technologies such virtualization and Raspberry. I have programmed and developed software for applications at the service of the company. I have validated (OQ/PQ/IQ) laboratory instruments (Perkinelmer / Waters).

Technical Enviroment. GNU/Linux (Debian, Centos, Fedora, Ubuntu, Mint, OpenMediaVault, AntixMEPIS), Windows Xp/7/8/10, System I (OS 400), Nftables, Fail2ban, Vlan, Samba, Squid, Nagios, SSH, VSFTP, Bash, HTML/CSS, Javascript, Smstools, Rsync, Thunderbird, Office 2007/2010/2013/2016, Fortran, Gambas, C, Java, Python, OpenVPN, LaTeX, LibreOffice, CUPS, Virtualbox, Raspberry, CFR-21, GAMP.

2008 – 2010
Researcher

University of Pisa/Mathematics Department, Largo Pontecorvo, 5 - Pisa (Italy)

Activity. The Mercury Orbiter Radio Science Experiment (MORE) of the ESA mission Bepi-Colombo will provide an accurate estimation of Mercury's gravity field. I have developed (together with the research group of Celestial Mechanics - University of Pisa) Orbit14 program, in Fortran code, to test General Relativity with the tracking data of the BepiColombo Mercury orbiter, with relativistic models for the orbits of Mercury and of the Earth, for the light-time and for all the spatio-temporal reference frames involved, with high accuracy. For the dynamics, I have used Lagrangian post-newtonian (PN) formulation, using a relativistic equation for the solar system barycenter to avoid rank deficiency.

Technical Enviroment. Ubuntu, CentOS, Red Hat, Orbit 14 (Fortran software), Fortran, Perl, LaTeX.

2002 – 2007   ## Naval Officer - Lieutenant

CITS - Joint Forces Satellite Remote Sensing Center, Aeroporto Militare "Mario de Bernardi" - Pratica di Mare (Italy)/ Navy Ministry - Roma (Italy)

Activity During my assignment as Officer in the Navy, I managed and coordinated of the personnel of the operations room for the acquisition of Helios products. I developed a software for statistical analysis of Helios products (images and daily mission diary). I participated in the drafting of the military requirements for the Ground Segment of the Cosmo Sky-Med project through work packages at Thales and Telespazio.

Technical Enviroment. Windows, Visual Basic, MySql, Java, Fortran.

EDUCATION ▪

2002 and 2004   ## Training Naval Officer - Italian Navy - Lieutenant

Naval Academy, Viale Italia, 72 - Livorno (Italy)

1995-2001   ## Master's Degree in Astronomy

Thesis title: "Probability of asteroid impact with the Earth". Contents: calculation of the orbit and recovery of an asteroid, linear, semilinear theory, multiple solutions, M.O.I.D. (Minimum Distance of Orbital Intersection), analysis of close encounters, analysis of the Target Plane, Virtual Asteroids, probabilistic interpretation of the orbital determination for asteroids, probability of impact, impact hazard, Turin/Palermo scale, N.E.O. Software used: OrbFit, UNIPI.

University of Bologna (Italy), Via Zamboni, 33 - Bologna (Italy)

EVENTS ▪

2009   ## BepiColombo MORE experiment, European Space Agency, Progress Meeting, Roma (Italy)

`http://adams.dm.unipi.it/~mercury/MORE4/index.html`

Agenda Project status. Funding and contractual status. Management and reporting structure - G/S status. KAT development status: activities, schedule , issues. Discussion on KaT development status and delay recovery plan. Scientific Reports. Simulation of the gravimetry experiment MORE. Tropospheric calibrations MORE. Orbit determination software status.

2009   ## BepiColombo MORE experiment, Relativity Working Group Meeting, Roma (Italy)

`http://adams.dm.unipi.it/~mercury/MORE3/index.html`

Agenda Status of MORE and BepiColombo. Orbit determination and relativity. Lagrangian formulation for PN Relativity. Equations of motion and variational equations. The MORE observables. Spacetime reference systems. Documentation system and the certification process. Accurate lighttime correction due to a gravitating mass. Relativistic model of GAIA astrometric observations; proposed formulation for the MORE experiment. The measurement of the Nordtvedt parameter with MORE: presentations of the two papers, new contributions and discussion. Restricted ephemerides improvement. The INPOP ephemerides and the effects of the asteroid masses on the orbit of Mercury.

2007 **BepiColombo MORE experiment, Alcatel Alenia Space, First Team Meeting, Roma (Italy)**

`http://adams.dm.unipi.it/~mercury/MORE1/index.html`

Agenda The internal structure, tides and rotational state of Mercury. Geodesy and relativity with BepiColombo: numerical simulation of the radio science experiment. Covariance analysis for the relativity experiment. The measurements of the obliquity and physical librations with BepiColombo. SIMBIO-SYS: the imaging system of BepiColombo. The ISA accelerometer. Review of the requirements for the MORE experiment. Concepts and options for the KAT architecture. The spacecraft design and the radio science experiment.

LANGUAGES

Mother tongue   Italian

Other languages

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English				
B2	B2	B2	B2	B2
French				
B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
Common European Framework of Reference for Languages

OTHER SKILLS

Science Communicator
– Conference on the probability of impact of asteroids on Earth for the National Institute of Astrophysics - Astronomical observatory of Bologna.
– Conference on artificial satellites for the students of the master's degree Satellites and Platforms of the La Sapienza University, Rome.
– Conference on artificial satellites for the staff of the Joint Remote Sensing Satellite Center, Pratica di Mare.
– Responsible of the web multidisciplinary project "Divulgazione Libera". - `www.divulgazionelibera.it`
– Italian translation of the ECSS - European Cooperation for Space Standardization.

Sports   Volleyball at a competitive level in federal championships with FIPAV membership.

Other   Love to travel and experience different cultures.

Driving licence   B

PUBLICATIONS

[1] **Emanuele Maria Latorre**. "**Chi ha portato la Luna a Pomezia.**" In: *Il Pontino Nuovo, Numero 12, p. 26* (2022).

[2] **Emanuele Maria Latorre**. "**No alla chiusura dello stabilimento Leonardo di Pomezia.**" In: *Il Pontino Nuovo, Numero 9, p. 9* (2022).

[3] **Emanuele Maria Latorre**. "**Perchè il cielo è blu.**" In: *Il Pontino Nuovo, Numero 8, p. 28* (2022).

[4] **Emanuele Maria Latorre**. "**I satelliti artificiali.**" In: *Quaderni del Campus - Università di Pomezia* (2011).

[5] **Emanuele Maria Latorre**. "**Relativistic models for the BepiColombo radioscience experiment.**" In: *Relativity in Fundamental Astronomy: Dynamics, Reference Frames, and Data Analysis, Proceedings of the International Astronomical Union, IAU Symposium, Volume 261, p. 356-365* (2010).

[6] **Emanuele Maria Latorre** and Adele Mitrotti. "**Gli effetti del volo spaziale sugli astronauti**". In: *Rivista Marittima* (2007).

[7] **Emanuele Maria Latorre**. "**La Luna**". In: *Rivista Marittima* (2007).

[8]   **Emanuele Maria Latorre**. "**L'influenza dell'ambiente terrestre sui satelliti artificiali**". In: *Rivista Aeronautica* (2006).

[9]   **Emanuele Maria Latorre**. "**La difesa italiana e lo spazio**". In: *Rivista Marittima* (2006).

[10] **Emanuele Maria Latorre**. "**I satelliti artificiali**". In: *Rivista Aeronautica* (2005).

[11] **Emanuele Maria Latorre**. "**Asteroidi: pericolosi incontri ravvicinati**". In: *Rivista Aeronautica* (2003).

The information contained in this Curriculum Vitae et studiorum is provided under the it is the responsibility of the undersigned pursuant to articles 46 and 47 of the D.P.R. December 28, 2000 n. 445, aware of the criminal liability provided for by art. 76 of the same D.P.R., for the hypothesis of falsity in documents and false declarations.