EUROPEAN CURRICULUM VITAE FORMAT

FORMAT	
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RESEARCH EXPERIENCE	
	Dec 2023 - ongoing Geomatics for Resilience Against Water Scarcity (GRAW project) funded by the Italian Space Agency (ASI) - member of the research team of Sapienza University of Rome
WORK EXPERIENCE	
	Aug 2021 - Feb 2022 Special Project Supervisor - GeoDB design and Digital Cadastral DataBase (DCDB) for agricultural sites - Faam Infrastructure Company – Tehran, Iran
EDUCATION AND TRAINING	
	2022 – 2025 Ph.D. of Infrastructure and Transportation at Sapienza University of Rome. Thesis title: Earth Observation big data exploitation for water reservoirs and glaciers continuous monitoring.
	2018 – 2021 M.Sc. of Geographic Information Systems (GIS) at Shahid Rajaee University. Thesis title: User Behavior Analysis Based on Spatial Background. Thesis mark: excellent, GPA: 18.99/20
	2014 – 2018 B.Sc. Of Geomatics Engineering at Jundi-Shapur University of Technology.
Awards and Achievements	
2023	Second place in 5th Cassini Hackathon, SAR 4 SAR: Revolutionizing search and rescue operations in the Mediterranean Sea with Sentinel 1 and 2 satellite imagery
	Selected for Google Summit - 2023 Geo for Good conference and workshops - San Francisco - USA
2022	Grant of young researchers, funded by Sapienza University of Rome.
	Doctoral Program fellowship, at the Sapienza University of Rome.
Speaker at national and international congresses and conferences	 14 to 19 of Apr 2024 The General Assembly 2024 of the European Geosciences Union (EGU) - Austria 25 to 26 of Sept 2023 2GG - Two Days of Geomatics (2GG) - Italy 10 to 17 of Jul 2023 The 28th International Union of Geodesy and Geophysics - Germany 23 to 28 of Apr 2023 The 39th International Symposium on Remote Sensing of Environment -Turkey 12 to 17 of Sept 2022 The 41st European Association of Remote Sensing Laboratories - Cyprus
Skills	

Coding	Python, JavaScript, MATLAB, LATEX
LIBRARIES	Python: SciPy, NumPy, matplotlib, Seaborn, Icepyx, OpenCV, GDAL, Pandas, scikit-learn
DATABASES	SQL, PostgreSQL, PostGIS
CLOUD COMPUTING	Google Earth Engine (JS API), Microsoft Planetary Computer
Web Dev	HTML, CSS, JavaScript, Leaflet
Softwares	ArcGIS, ENVI, QGIS, SAGA GIS
CERTIFICATIONS	LiDAR, SAR, and GNSS seismology (GATHERS Advanced School 2024), Deep Learning Applications within ArcGIS (ESRI 2023), Search Engine Optimization of digital marketing fundamentals (Google 2022)

A. Hamoudzadeh, R. Ravanelli, and M. Crespi, "SWOT Level 2 Lake Single-Pass Product: The L2_HR_LakeSP Data Preliminary Analysis for Water Level Monitoring," Remote Sensing, vol. 16, no. 7, 2024, issn: 2072-4292. doi: https://doi.org/10.3390/rs16071244.

A. Hamoudzadeh, R. Ravanelli, and M. G. Crespi, "Global-scale monitoring of inland water surface levels with GEDI geo big data using Google Earth Engine: Potentialities and issues," Under Review, 2024.

A. Hamoudzadeh, R. Ravanelli, and M. Crespi, "GEDI data within Google Earth Engine: Preliminary analysis of a resource for inland surface water monitoring," The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol. XLVIII-M-1-2023, pp. 131–136, 2023. doi: https://doi.org/10.5194/isprs-archives-XLVIII-M-1-2023-131-2023.

A. Hamoudzadeh and S. Behzadi, "Evaluation of effective factors on air pollution using optimized cellular automata. a case study of Tehran," Journal of Engineering Research, 2021. doi: <u>https://doi.org/10.36909/jer.13749</u>.

A. Hamoudzadeh and S. Behzadi, "Predicting user's next location using machine learning algorithms," Spatial Information Research, vol. 29, no. 3, pp. 379–387, 2021. doi: <u>https://doi.org/10.1007/s41324-020-00358-2</u>.

CONFERENCE PROCEEDINGS

JOURNAL ARTICLES

A.Hamoudzadeh, R. Ravanelli, and M. Crespi, "Glacier monitoring using GEDI data in Google Earth Engine: Outlier removal and accuracy assessment," 2024. doi: <u>https://doi.org/10.5194/egusphere-egu24-10176</u>.

A. Hamoudzadeh, R. Ravanelli, and M. G. Crespi, "GEDI data within Google Earth Engine: Potentials and analysis for inland surface water monitoring," in European Geosciences Union, 2023. doi: <u>https://doi.org/10.5194/egusphere-egu23-15083</u>.

A. Hamoudzadeh, R. Ravanelli, and M. G. Crespi, "Italian lakes water level monitoring through GEDI altimetric data within Google Earth Engine: A preliminary analysis," in XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) (Berlin 2023)., 2023. doi: <u>https://doi.org/10.57757/IUGG23-3886</u>.

A. Hamoudzadeh, R. Ravanelli, and M. G. Crespi, "Global monitoring of inland water surface with GEDI geo big data using Google Earth Engine: Preliminary

analysis, potentials and issues," in Google Summit Geo4Good, 2022.

A. Hamoudzadeh, R. Ravanelli, and M. G. Crespi, "Inland water surface global monitoring with GEDI geo big data using Google Earth Engine: Preliminary analysis, potentials, and issues," in EARSeL Cyprus 2022, 2022.

LANGUAGES

	English
 Reading skills 	C2
Writing skills	C2
 Speaking skills 	C2
	Italian
 Reading skills 	B1
 Writing skills 	A2
 Speaking skills 	A2
	Arabic
 Reading skills 	C1
Writing skills	C1
 Speaking skills 	B2
	Persian
	MOTHER TONGUE

In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.

Rome, 6 June 2024