Fecha del CVA	01/11/2022

Parte A. DATOS PERSONALES

Nombre y apellidos	Sebastiano D'Amico		
DNI/NIE/pasaporte	140744A	Edad	43
Núm. identificación del investigador	Researcher ID		
	Código Orcid	https://orcid.org/0000-0001-7429-4767	

A.1. Situación profesional actual

Organismo	University of Malta		
Dpto./Centro	Department of Geosciences		
Dirección	Msida MSD 2080, Malta		
Teléfono		correo electrónico	sebastiano.damico@um.edu.mt
Categoría profesional	Head, Department of Geosciences, University of Malta	Fecha inicio	10/2014
Espec. cód. UNESCO	2211; 2503; 2507		
Palabras clave	Geofisica superficial, Sismología, Ambient noise		

A.2. Formación académica *(título, institución, fecha)*

Licenciatura/Grado/Doctorado	Universidad	Año
Máster en física	Universidad de Messina	2004
Doctorado en Ciencias de la Tierra - Geofísica	Universidad de Nápoles Federico II	2009
Italian National Scientific Qualification as Associate Professor (Geophysics)		2020

A.3. Indicadores generales de calidad de la producción científica

Índices:

- Google Scholar: Citas:2420; Índice h:24; Índice i10:60
- Research Gate: 183 Publications; 46.227 Reads;1575 Citations
- Scopus: 75 Documents by author; 1671 Citations by 1260 documents; 21h-index

Formación:

- Post-doc y research officers supervisados: 9
- Estudiantes de tesis supervisados (27) o co-supervisdos (18): 45, de las cuales 7 son tesis doctorales leídas y 4 tesis doctorales en proceso.
- Supervisión de estudiantes de instituciones extranjeras: 15

Parte B. RESUMEN LIBRE DEL CURRÍCULUM

Sebastiano D'Amico (PhD) trabaja en la Universidad de Malta, dentro del Departamento de Física y el Departamento de Geociencias, desde 2010, actualmente siendo el responsable del departamento de Geociencias. Se matriculó en el programa de Física de la Universidad de Messina, donde obtuvo el título de "Dottore in Fisica". También tiene un doctorado en geofísica. En 2005 se trasladó a Roma, donde se incorporó al Istituto Nazionale di Geofisica e Vulcanologia (INGV). En 2007 se trasladó a Estados Unidos para incorporarse a la Universidad de Saint Louis (Departamento de Ciencias de la Tierra y la Atmósfera). Sus intereses de investigación se centran en los aspectos aplicados de la geofísica y la sismología, riesgo sísmico, soluciones del tensor de momento y mediciones del ruido ambiental. Es autor de dos libros, coautor de otros dos, y ha editado 11 libros, y cuenta con más de 100 publicaciones *peer review* la mayoría de ellos relacionados con geofísica.

De 2016 a 2018, fue vicepresidente de la Comisión Sismológica Europea. Actualmente Forma parte del *Executive Committee Member of European Seismological Commission, Executive Committee Member of ORFEUS (Observatories and Research Facilities for EUropean Seismology, committee for developing the COSMOS (Consortium of Organizations for Strong-Motion Observation Systems) International Noninvasive Site*

Characterization Guidelines (Representative of Malta) , es líder de la *COST Action SAGA* y es cordinador de la *Associazione dei Docenti Universitari e Ricercatori Italiani a Malta: ADURIM* y del laboratorio de geofísica de la Universiad de Malta, donde imparte diversos cursos.
Forma parte como editor asociado de diversas revistas científicas y ha sido editor invitado en más de 10 ocasiones. Ha brindado más de 50 presentaciones como invitado académico en 4 continentes, ha organizado 16 *training schools* y conferencias, ha sido coordinador de sesiones en 15 ocasiones y ha participado como jurado en comités académicos y públicos en 34 ocasiones.

Parte C. MÉRITOS MÁS RELEVANTES

C.1. Publicaciones seleccionadas en revistas indexadas (últimos 5 años)

1. Yong, A., Askan, A., Cassidy, J., **D'Amico, S**., Parolai, S., Pilz, M., & Stephenson, W. (2022). Introduction to the special issue of the Consortium of Organizations for Strong Motion Observation Systems (COSMOS) international guidelines for applying noninvasive geophysical techniques to characterize seismic site conditions. *Journal of Seismology*, 1-10.
2. Antunes, V., Planès, T., Obermann, A., Panzera, F., **D'Amico, S**., Mazzini, A., ... & Lupi, M. (2022). Insights into the dynamics of the Nirano Mud Volcano through seismic characterization of drumbeat signals and V/H analysis. *Journal of Volcanology and Geothermal Research*, *431*, 107619.
3. Mancini F, **D'Amico S**., Vessia G., 2022 Are Synthetic Accelerograms Suitable for Local Seismic Response Analyses at Near-Field Sites?. Bulletin of the Seismological Society of America; doi: https://doi.org/10.1785/0120210074
4. Leucci G., Persico R., De Giorgi L., Lazzari M., Colica E., Martino S., Iannucci R., Galone L., **D'Amico S**., 2021. Stability Assessment and Geomorphological Evolution of Sea Natural Arches by Geophysical Measurement: The Case Study of Wied Il-MielahWindow (Gozo, Malta). Sustainability, 13, 12538. https://doi.org/10.3390/su132212538
5. Randazzo G., Italiano, F., Micallef A., Tomasello A., Cassetti F.P., Zammit A., **D'Amico S**., Saliba O., Cascio M., Cavallaro F., Crupi A., Fontana M., Gregorio M., Lanza S. Colica E.. Muzirafuti A, 2021. WebGIS Implementation for Dynamic Mapping and Visualization of Coastal Geospatial Data: A Case Study of BESS Project. Appl. Sci. 11, 8233. doi: doi.org/10.3390/app11178233
6. Presti D., **D'Amico S**., Kassaras I., 2021. Major to Great Earthquakes: Multidisciplinary Geophysical Analyses for Source Characterization. Frontiers, doi: 10.3389/feart.2021.749603
7. **D'Amico S**., Comite V., Paladini G., Ricca, M., Colica E., Galone L, Guido S, Mantella G, Crupi V, Majolino D, Fermo P., La Russa M., Randazzo L., Venuti, V. 2021. Multitechnique diagnostic analysis and 3D surveying prior to the restoration of St. Michael defeating Evil painting by Mattia Preti. Environmental Science and Pollution Research, 1-20. https://doi.org/10.1007/s11356-021-15880-5
8. Galea P., Agius M., Bozionelos G., **D'Amico S**., Farrugia D., 2021. A first national seismic network for the Maltese islands - the Malta Seismic Network. Seismological Society of America, 92(3), 1817-1831.
9. **D'Amico S**., Venuti V., Colica E., Crupi V., Paladini G., Guido S., Mantella G., Majolino D., 2021. A combined 3D surveying, XRF and Raman in situ investigation on The Conversion of St Paul painting (Mdina, Malta) by Mattia Preti. ACTA IMEKO, 10(1), 173-179.
10. Baruah S., Sharma A., Dey C., Saikia S., Boruah G. K., Eluyemi A., Borthakur P., Molia N., Hazarika A. D., Sailo S., **D'Amico S**., Phukan M., Baruah S., J. R. Kayal 2021. Correlation between crustal anisotropy and seismogenic stress field beneath Shillong–Mikir Plateau and its vicinity in North East India, Geomatics, Natural Hazards and Risk, 12:1, 2070-2086, DOI: 10.1080/19475705.2021.1947902
11. Farrugia D., Galea P., **D'Amico S**., 2020. Modelling and assessment of earthquake ground response in areas characterized by a thick buried low-velocity layer, Natural Hazards, https://doi.org/10.1007/s11069-020-04298-w1

12. Agius M., Galea P., Farrugia D., **D'Amico S., 2020**. An instrumental earthquake catalogue for the offshore Maltese islands region, 1995–2014. Annals of Geophysics, https://doi.org/10.4401/ag-8383
13. Farhat I., Farrugia L., Persico R., **D'Amico S**., Sammut. C., 2020. Preliminary experimental measurements of the dielectric and magnetic properties of a material with a coaxial TDR probe in reflection mode. Progress In Electromagnetics Research M, 91, 111–121.
14. Lupi M., Trappinera D., Gonzales D., **D'Amico S.,** Acocella V., Cabello C., Muelle Stef. M., Tassara A., 2020. Transient tectonic regimes imposed by megathrust earthquakes and the growth of NW-trending volcanic systems in the Southern Andes. Tectonophysics. 774, 228204, https://doi.org/10.1016/j.tecto.2019.228204
15. Iannucci R., Martino S., Paciello A., **D'Amico S**., Galea P., 2020. Investigation of cliff instability at Għajn Ħadid Tower (Selmun Promontory, Malta) by integrated passive seismic techniques. Journal of Seismology, https://doi.org/10.1007/s10950-019-09898-z
16. Holt M., Koper K., Yeck W., **D'Amico S**., Li Z., Pechmann J. C., Hale J. M., Burlacu R. 2019. On the Portability of ML-MC as a Depth Discriminant for Small Seismic Events Recorded at Local Distances. Bulletin of Seismological Society of America, DOI:https://doi.org/10.1785/0120190096
17. Panzera F., Romagnoli G., Tortorici G., **D'Amico S**., Rizza M., Catalano S., 2019. Integrated use of ambient vibrations and geological methods for seismic microzonation. Journal of Applied Geophysics, 170, 103820. DOI: https://doi.org/10.1016/j.jappgeo.2019.10b3820
18. Panzera F., **D'Amico S**., Colica E., Viccaro M., 2019. Ambient vibration measurements to support morphometric analysisof a pyroclastic cone Bullettin of Volcanology, DOI:10.1007/s00445-019-1338-1
19. Micallef A., Spatola D., Caracausi A., Italiano F., Barreca G., **D'Amico S**., Petronio L., Corene F., Facchine L., Blanose R., Pavane A., Paganinie P., Taviani M., 2019. Active degassing across the Maltese Islands (Mediterranean Sea) and implications for its neotectonics, Marine and Petroleum Geology, 104, 361–374. DOI:https://doi.org/10.1016/j.marpetgeo.2019.03.033
20. Bozionelos G., Galea P., **D'Amico S**., Plasencia Linares M., Romanelli M., Rossi G., Parolai S., Vuan A., Sugan M., Agius M.R., 2019. An augmented seismic network to study off-shore seismicity around the Maltese Islands: The FASTMIT experiment. Journal of the Malta Chamber of Scientists, 7, 104–121. DOI:10.7423/XJENZA.2019.2.03
21. **D'Amico S**., Akinci A., Pischiutta M., 2018. High-Frequency Ground-Motion Parameters from Weak-Motion Data in the Sicily Channel and Surrounding Regions. Geophysical Journal International 214(1), pp.148-163, https://doi.org/10.1093/gji/ggy107
22. Iannucci R., Martino S., Paciello A., **D'Amico S**., Galea P., 2018. Engineering geological zonation of a complex landslide system through seismic ambient noise measurements at the Selmun Promontory (Malta). Geophysical Journal International, 213, 2, 1146–1161, https://doi.org/10.1093/gji/ggy025
23. Baruah S., **D'Amico S**., Saikia S., Gautam J. L., Mrinalinee Devi r. L., Boruah G. K., Sharma A., Abdelwahed M., 2018. Study of fault plane solutions and stress drop using local broadband network data: the 2011 Sikkim Himalaya earthquake of Mw 6.9 and its aftershocks, Annals of Geophysics, 61, 1, SE107, DOI:10.4401/ag-7367
24. Scolaro S., Pino P., **D'Amico S**., Orecchio B., Presti D., Torre A., Totaro C., Farrugia D., Neri G., 2018. Ambient noise measurements for preliminary microzoning studies in the city of Messina, Sicily. Annals of Geophysics, DOI: https://doi.org/10.4401/ag-7711
25. Pino P., **D'Amico S.,** Orecchio B., Presti D., Scolaro S., Torre A., Totaro C., Farrugia D., Neri G., 2018. Integration of geological and geophysical data for re-evaluation of local seismic hazard and geological structure: the case study of Rometta, Sicily. Annals of Geophysics, DOI: https://doi.org/10.4401/ag-7710
26. Galea P., Bozionelos G., **D'Amico S**., Drago A., Colica E., 2018. Seismic signature of the Azure Window collapse, Gozo, Central Mediterranean. Seismological Research Letters, https://doi.org/10.1785/0220170115
27. Villani F., **D'Amico S**., Panzera F., Vassallo M., Bozionelos G., Farrugia D., Galea P., 2018. Shallow high-resolution geophysical investigation along the western segment of

the Victoria Lines Fault (island of Malta). Tectonophysics, 724–725, 220-233. DOI: https://doi.org/10.1016/j.tecto.2018.01.010

28. Panzera F., **D'Amico S**., Lupi M., Mauri G., Karyono K., Mazzini A., 2018. Lusi hydrothermal structure inferred through ambient vibration measurements. Marine and Petroleum Geology. 90:116-24, https://doi.org/10.1016/j.marpetgeo.2017.06.017
29. Farrugia D., Galea P., **D'Amico S**., Paolucci E., 2017. Sensitivity of ground motion parameters to local shear-wave velocity models: The case of buried low-velocity layers. Soil Dynamics and Earthquake Engineering, 100, 196–205, http://dx.doi.org/10.1016/j.soildyn.2017.05.033
30. **D'Amico S.,** Galea P., Borg R. P., Bonello M., 2017. Georisks in the Mediterranean and their mitigation, Natural Hazards, DOI:10.1007/s11069-017-2797-3
31. Innucci R., Martino S., Martorelli F., Paciello A., **D'Amico S**. 2017. Rock mass characterization coupled with seismic noise measurements to analyze the unstable sea cliff of Selmun (Malta), Procedia Engineering, 191, 263-269 https://doi.org/10.1016/j.proeng.2017.05.180
32. Panzera F., Lombardo G., Sicali S., **D'Amico S**., 2017. Surface geology and morphologic effects on seismic site response: the study case of Lampedusa, Italy. Physics and Chemistry of the Earth, 98, 62-72, DOI:10.1016/j.pce.2016.08.006
33. Pischiutta M., Villani F., **D'Amico S**., Vassallo M., Cara F., Di Naccio D., Farrugia D., Di Giulio G., Amoroso S., Cantore P., Mercuri A., Famiani D., Galea P., Akinci A., Rovelli A., 2017. Results from shallow geophysical investigations in the northwestern sector of the island of Malta, Physics and Chemistry of the Earth, DOI:10.1016/j.pce.2016.10.013

C.2. Proyectos más relevantes (últimos 5 años)

C.2.1. Proyectos como IP

1. PI DEMUWA funded by the Malta council for Science and Technologies (2022-2024)
2. PI SIPOBED funded by the Malta council for Science and Technologies (2021-2023)
3. PI *Near-surface geophysics and geomatic applied to coastal systems* funded by the Malta council for Science and Technologies (2022-2023)
4. PI MH2 (2022)
5. PI G3 funded by the Malta council for Science and Technologies (2022)
6. PI of the Research Project *Seismic Imaging of Groundwater for Maltese Aquifers (SIGMA)* funded by the Energy and Water Agency (2021-2023)
7. PI of the research project *Hunting for hidden on shore-faults on the Maltese islands by high-resolution geophysical analysis and re-evaluation of local seismic hazard* funded by the University of Malta – Internal research grant scheme (2020)
8. PI of the research project *Geophysical investigation at the at l-Abbatija tad-Dejr catacombs (Malta)* funded by the Superintendence of Cultural Heritage (2020)
9. PI of the research project *Multidisciplinary geophysical investigation and monitoring at the Ghar-Dalam Cave and Borg-il-Nadur archeological site (Malta)* funded by Heritage Malta (2019-2020)
10. PI of the research project M*onitoring of the at the Xrobb l-Ghagin Neolithic Archeological site (Malta)* funded by Heritage Malta (2019-2020)
11. PI of the research project *Innovative Multidisciplinary Approaches and Technologies for conservation of Maltese Cultural Heritage sites*, funded by University of Malta, 2019
12. PI of the research project "*Non-invasive geophysical prospecting and virtual reconstruction within St. John Co-Cathedral*" funded by St. John Co-Cathedral Foundation, 2017-2020
13. PI of the research project "*Dynamic characteristics of active coastal spreading areas: evaluation of cliff instability*" funded by University of Malta (GSCRP02-17), 2017
14. PI of the research project "*Computing Moment Magnitude and Source Parameters for Small and Moderate Earthquakes in the Italian Region through Waveform Inversion*" funded as one of the tasks of the project "Aggiornamento del modello di pericolosità sismica di lungo termine per l'Italia" coordinated by Istituto Nazionale di Geofisica e Vulcanologia, and funded by Italian Civil Protection Department

C.2.2. Proyectos como co-IP

1. Co-PI of the research project *Implementation of an innovative sea monitoring system using seismometers* (I-WaveNET) funded under the INTERREG Italia-Malta Program (2020-2023)
2. Co-PI of the research project *Real-time evaluation of moment tensor solution in the Mt Etna area* funded by the Italian Department of Civil Protection and Istituto Nazionale di Geofisica e Vulcanologia (INGV); 2018-2021
3. Co-PI of the research project "*NEWS Nearshore hazard monitoring and Early Warning System*" funded under the INTERREG Italia-Malta Program 2018-2021
4. Co-PI of the research project "*SIMIT - THARSY Tsunami Hazard Reduction System*" funded under the INTERREG Italia-Malta Program 2018-2021
5. Co-PI of the research project *Non-invasive investigations for enhancing the knowledge and the valorization of the cultural heritage*, funded by the bilateral agreement between Consiglio Nazionale delle Ricerche and University of Malta; 2018-2021
6. Co-PI of the research project *From population risk perception to social vulnerability in coastal areas subject to climate change: a proposal for risk management strategies in two Mediterranean regions*, funded by the bilateral agreement between Consiglio Nazionale delle Ricerche and University of Malta; 2018-2021
7. Co-PI of the research project "*TDRpro: Design of Time Domain Reflectometer (TDR) Probes*" funded by Ministry for the Economy, Industry and Small Business (Malta)
8. Co-PI of the research project "*Use of newer methodologies and updating of seismic hazard assessment and contribution to national EC8 guidelines*" funded by University of Malta, 2017