

CURRICULUM VITAE

FORMATO EUROPEO

INFORMAZIONI PERSONALI

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ESPERIENZA PROFESSIONALE

Date (da – a)	Dal novembre 1991 al novembre 2004
Nome e indirizzo del datore di lavoro	Istituti di Istruzione di II Grado Statali
Tipo o settore di attività	Docente di Matematica e Fisica
Date (da – a)	Dal dicembre 2004
Nome e indirizzo del datore di lavoro	Agenzia Regionale per la Protezione dell'Ambiente di Basilicata (ARPAB)
Tipo o settore di attività	Collaboratore Tecnico Professionale

ISTRUZIONE E FORMAZIONE

Date (da – a)	1991
Nome e tipo d'istituto di istruzione	Università degli studi di Torino
Certificato o diploma ottenuto	Laurea in Fisica
Livello nella classificazione nazionale	110/110

ALTRO

Dal 2004 ad oggi collaboratore esterno del CNR di Tito Scalo
Dal 18 febbraio 2019 è iscritto all'ordine dei Chimici e dei Fisici della provincia di Potenza al n.198 – sezione A.

Attività scientifiche

PARTECIPAZIONE A PROGETTI SCIENTIFICI

- Project 2014-2016 MAE-MINCYT "Use of satellite technologies aimed at large-scale oceanographic study of the Argentinean continental shelf" nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e Argentina
- Project 2014-2015 CNR-ANAS "Development and application of advanced statistical methods to characterize GPS and gravimetric continuous signals measured in a high geodynamically active area of Azerbaijan" nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e Azerbaijan
- Project 2013-2014 CNR-ASM "Development and application of statistical models and methods to characterize earthquake and microtremor series recorded in Moldova: contribution to the development of a crustal model of seismically hazardous areas in Moldova" nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e Moldova
- Project 2013-2015 CNR-CONACyT "Development of statistical entropic and informational methods for the investigation of complex dynamical systems", nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e Messico
- Project 2012-2014 CNR-CSIR "Development of time series analysis tools for the earthquakes and their tsunamigenic behaviour" nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e India
- Project 2012-2013 CNR-CNRSL "Investigation of hydrological trends in Lebanon: implications with the management of water resources" nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e Libano
- Project 2012-2013 CNR-CNRST "Development of time series analysis tools applied to the investigation of seismograms for the discrimination between earthquakes and explosions" nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e Marocco
- Project 2012-2013 CNR-ANAS "Spatio-temporal characterization of seismicity and seismic hazard assessment of the Absheron peninsula (Azerbaijan). Contribution to seismic risk evaluation" nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e Azerbaijan
- Project 2012-2013 CNR-NSC "Advanced time series analysis tools for magnetotelluric data" nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e Taiwan
- Project 2012-2013 CNR-SRSNF "Investigation of large dam-induced changes in geophysical phenomena: the case of the Enguri Dam International Test Area (EDITA), Georgia" nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e Georgia
- Project 2011-2012 CNR-ASM "Characterization of seismicity of Moldova Republic territory. Contribution to seismic hazard assessment" nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e Moldova
- Project 2011-2013 CNR-CAS "Development of models and time series analysis tools for the analysis of fire sequences" nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e Cina
- Project 2011-2012 CNR-ASRT "Spatiotemporal seismicity patterns and earthquake precursors at Aswan, Egypt. Contribution to earthquake hazard assessment" nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e Egitto
- Project 2011-2012 CNR-CONICET "Development of models and time series analysis tools for oceanographic parameters analysis and forecasting" nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e Argentina
- Project 2011-2012 CNR-CSIC "Development of robust processing tools for the analysis of magnetotelluric data" nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e Spagna
- Project 2010-2012 CNR-PAN "Development of innovative nonlinear time series tools for dynamical systems" nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e Polonia
- Project 2010-2011 CNR-CNRST "Fractal characterization of seismicity of some active areas of Morocco. Contribution to seismic risk assessment (Renewal)" nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e Marocco
- Project 2008-2009 CNR-CNRST "Fractal characterization of seismicity of some active areas of Morocco. Contribution to seismic risk assessment" nell'ambito dell'Accordo di Cooperazione Scientifica e Tecnologica tra Italia e Marocco

Pubblicazioni

1. E Carbone, A Pollo, M Lovallo, G Aicardi, E Sher Voltage-Dependent α -Adrenergic Modulation of Ca Channels in Peripheral Neurons and Insulin-Secreting Cells Intracellular Regulation of Ion Channels, 161-172
2. POLLO, M LOVALLO, E SHER, E CARBONE NORADRENERGIC AND

- MUSCARINIC MODULATION OF HIGH-THRESHOLD CA CHANNELS IN HUMAN NEUROBLASTOMA IMR32-CELLS-SELECTIVITY, BINDING-KINETICS AND VOLTAGE-DEPENDENCY EUROPEAN JOURNAL OF NEUROSCIENCE, 93-93
3. A Pollo, M Lovallo, E Sher, E Carbone Voltage-dependent noradrenergic modulation of ω -conotoxin-sensitive Ca^{2+} channels in human neuroblastoma IMR32 cells Pflügers Archiv 422 (1), 75-83
 4. A Pollo, M Lovallo, E Biancardi, E Sher, C Socci, E Carbone Sensitivity to dihydropyridines, ω -conotoxin and noradrenaline reveals multiple high-voltage-activated Ca^{2+} channels in rat insulinoma and human pancreatic β -cells Pflügers Archiv 423 (5-6), 462-471
 5. Agnese Codignola, Paola Tarroni, Francesco Clementi, Antonella Pollo, Michele LoVallo, Emilio Carbone, E Sher Calcium channel subtypes controlling serotonin release from human small cell lung carcinoma cell lines. Journal of Biological Chemistry 268 (35), 26240-26247
 6. E Sher, A Codignola, P Tarroni, F Clementi, A POLLO, M LOVALLO, E CARBONE VOLTAGE-OPERATED CALCIUM CHANNELS CONTROL HORMONE-RELEASE FROM HUMAN SMALL-CELL LUNG-CARCINOMA CELL-LINES BRITISH JOURNAL OF PHARMACOLOGY 111, P38-P38
 7. V Magnelli, A Pollo, M Lovallo, E Carbone DHP-INSENSITIVE CALCIUM CHANNELS IN INSULIN-SECRETING CELLS BIOPHYSICAL JOURNAL 66 (2), A54-A54
 8. V Carabelli, M Lovallo, V Magnelli, H Zucker, E Carbone Voltage-dependent modulation of single N-type Ca^{2+} channel kinetics by receptor agonists in IMR32 cells Biophysical journal 70 (5), 2144-2154
 9. L. Telesca, V. Lapenna, M. Lovallo and M. Macchiato, Long-range time-correlation properties of seismic sequences, *Chaos Solitons & Fractals*, 21, 387-393, 2004
 10. L. Telesca, V. Lapenna and M. Lovallo, Information entropy analysis of seismicity of Umbria-Marche region (central Italy), *Nat. Haz. Earth Sys. Sci.*, 4, 691-695, 2004
 11. L. Telesca, V. Lapenna and M. Lovallo, Seismogenic zone-dependent time-clustering behaviour in Italian seismicity, *Computers & Geoscience*, 31, 489-496, 2005
 12. M. Lovallo, V. Lapenna and L. Telesca, Transition Matrix Analysis of earthquake magnitude sequences, *Chaos Solitons & Fractals*, 24, 33-43, 2005
 13. L. Telesca, G. Amatulli, R. Lasaponara, M. Lovallo and A. Santulli, Time-scaling properties in forest-fire sequences observed in Gargano area (southern Italy), *Ecol. Model.*, 185, 531-544, 2005
 14. L. Telesca, V. Lapenna and M. Lovallo, Fisher information measure of geoelectrical signals, *Physica A*, 351, 637-644, 2005
 15. L. Telesca, V. Lapenna and M. Lovallo, Fisher Information analysis of earthquake-related geoelectrical signals, *Nat. Haz. Earth Sys. Sci.*, 5, 561-564, 2005
 16. L. Telesca and M. Lovallo, Are global terrorist attacks time-correlated?, *Physica A*, 362, 480-484, 2006
 17. L. Telesca, M. Lovallo, V. Lapenna and M. Macchiato, Long-range correlations in 2-dimensional spatio-temporal seismic fluctuations, *Physica A*, 377, 279-284, 2007
 18. L. Telesca and M. Lovallo, Nonrandom components in aircraft accidents time series, *Physica A*, 381, 407-410, 2007
 19. L. Telesca, G. Amatucci, R. Lasaponara, M. Lovallo and M. J. Rodrigues, Space-time fractal properties of the forest-fire series in central Italy, *Comm. Nonlin. Anal. Numeric. Simul.*, 12, 1326-1333, 2007
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 22. L. Telesca, and M. Lovallo, Analysis of the temporal properties in car accident time series, *Physica A*, 387, 3299-3304, 2008
 23. L. Telesca, M. Lovallo, V. Lapenna, and M. Macchiato, Space-magnitude dependent scaling behaviour in seismic interevent series revealed by detrended fluctuation analysis, *Physica A*, 387, 3655-3659, 2008
 24. L. Telesca, R. Caggiano, V. Lapenna, M. Lovallo, S. Trippetta, and M. Macchiato, The Fisher information measure and Shannon entropy for particulate matter measurements, *Physica A*, 387, 4387-4392, 2008
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 26. L. Telesca and M. Lovallo, Investigating non-uniform scaling behaviour in temporal

- fluctuations of seismicity, *Nat. Haz. Earth Sys. Sci.*, 9, 973-976, 2008
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 30. L. Telesca, and M. Lovallo, Non-uniform scaling features in central Italy seismicity: a non-linear approach in investigating seismic patterns and detection of possible earthquake precursors, *Geophys. Res. Lett.*, 36, L01308, doi:10.1029/2008GL036247, 2009
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 42. L. Telesca, M. Lovallo, Z. Kaláb, M. Lednická, Fluctuation analysis of the time dynamics of laser distance data measured in the medieval Jeroným Mine (Czech Republic), *Physica A*, 390, 3551-3557, 2011
 43. L. Telesca, M. Lovallo, Revealing competitive behaviours in music by means of the multifractal detrended fluctuation analysis: application to Bach's Sinfonias, *Proc. R. Soc. A*, 467, 3022-3032, 2011
 44. L. Telesca, M. Lovallo, Analysis of time dynamics in wind records by means of multifractal detrended fluctuation analysis and Fisher-Shannon information plane, *J. Stat. Mech.*, P07001, 2011
 45. J. O. Pierini, B. Scian, M. Lovallo, L. Telesca, Discriminating climatological regimes in rainfall time series by using the Fisher-Shannon method, *Int. J. Phys. Sci.*, 6, 7799 – 7804, 2011
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53. J. O. Pierini, M. Lovallo, L. Telesca, Visibility graph analysis of wind speed records measured in central Argentina, *Physica A*, 391, 5041–5048, 2012
54. L. Telesca, M. Lovallo, J. O. Pierini, Visibility graph approach to the analysis of ocean tidal records, *Chaos, Solitons & Fractals*, 45, 1086–1091, 2012
55. L. Telesca, M. Lovallo, A. Shaban, T. Darwich, N. Amacha, Singular spectrum analysis and Fisher–Shannon analysis of spring flow time series: An application to Anjar Spring, Lebanon, *Physica A* 392, 3789–3797, 2013
56. L. Telesca, M. Lovallo, A. Chamoli, V.P. Dimri, K. Srivastava, Fisher–Shannon analysis of seismograms of tsunamigenic and non-tsunamigenic earthquakes, *Physica A* 392, 3424–3429, 2013
57. L. Telesca, M. Lovallo, A. Ramirez-Rojas, L. Flores-Marquez, Investigating the time dynamics of seismicity by using the visibility graph approach: Application to seismicity of Mexican subduction zone, *Physica A* 392, 6571–6577, 2013
58. M. Lovallo, A. Shaban, T. Darwich, L. Telesca, Investigating the time dynamics of monthly rainfall time series observed in northern Lebanon by means of the Detrended Fluctuation Analysis and the Fisher-Shannon method, *Acta Geophysica* 61, 1538–1555, 2013
59. J. O. Pierini, M. Lovallo, L. Telesca, E. A. Gomez, Investigating prediction performance of an artificial neural network and a numerical model of the tidal signal at Puerto Belgrano, Bahia Blanca Estuary (Argentina), *Acta Geophysica* 61, 1522–1537, 2013
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- seismic microtremors, *Physica A*, 421, 541-547, 2015
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 83. C Haro-Pérez, M Lovallo, LR Moreno-Torres, A Ramirez-Rojas, ..128 Investigating the time dynamics of photon sequences scattered by tracer particles immersed in a polymeric gel *EPL (Europhysics Letters)* 115 (4), 47004
 84. L Telesca, M Lovallo On the performance of Fisher Information Measure and Shannon entropy estimators *Physica A: Statistical Mechanics and its Applications* 484, 569-576
 85. L Telesca, M Lovallo, EL Flores-Marquez Characterizing volcanic states at Popocatepetl, Mexico by informational analysis of continuous geomagnetic signal *Physica A: Statistical Mechanics and its Applications* 487, 178-184
 86. X Li, A Lanorte, R Lasaponara, M Lovallo, W Song, L Telesca Fisher-Shannon and detrended fluctuation analysis of MODIS normalized difference vegetation index (NDVI) time series of fire-affected and fire-unaffected pixels *Geomatics, Natural Hazards and Risk* 8 (2), 1342-1357
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 88. Lucia Rebeca Moreno-Torres, Armando Gomez-Vieyra, Michele Lovallo, Alejandro Ramirez-Rojas, Luciano Telesca Investigating the interaction between rough surfaces by using the Fisher-Shannon method: Implications on interaction between tectonic plates *Physica A: Statistical Mechanics and its Applications* 506, 560-565
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 91. F Guignard, M Lovallo, M Laib, J Golay, M Kanevski, N Helbig, L

- Telesca Investigating the time dynamics of wind speed in complex terrains by using the Fisher–Shannon method *Physica A: Statistical Mechanics and its Applications* **523**, 611-621
92. TH Wu, CC Chen, M Lovallo, L Telesca Informational analysis of Langevin equation of friction in earthquake rupture processes *Chaos: An Interdisciplinary Journal of Nonlinear Science* **29** (10), 103120
 93. Ba, R.; Song, W.; Lovallo, M.; Lo, S.; Telesca, L. Analysis of multifractal and organization/order structure in Suomi-NPP VIIRS Normalized Difference Vegetation Index series of wildfire affected and unaffected sites by using the multifractal detrended fluctuation analysis and the Fisher–Shannon analysis. *Entropy* **2020**, *22*, 415
 94. Telesca, L.; Chen, C.-C.; Lovallo, M. Investigating the relationship between seismological and topological properties of seismicity in Italy and Taiwan. *Pure Appl. Geophys.* **2020**, *177*, 4119–4126.
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ULTERIORI INFORMAZIONI

H-index is 26 (google Scholar) ; [i10-index](#) 72 (google Scholar)

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Sì, acconsento

Potenza, li *28/06/2024*

Firma *Michele Lovallo*