

Curriculum Vitae and publications



Name and title Stella Tamburrino PhD
Birth 18-04-1979, Napoli (Italy)
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Appointments

2014-2017 **Researcher**
IAMC-CNR Napoli and Capo Granitola (TP), Italy
2009-2014 **Postdoctoral fellow**
IAMC-CNR Napoli and Capo Granitola (TP), Italy
2004-2009 **Graduate Geologist**
IAMC-CNR Napoli, Italy

Education

PhD in Marine Science and Engineering, 2009
University of Naples "Federico II", Italy
Degree in Geology, 2004
Department of Earth Science, Naples University, Italy

Field Areas

Geochemistry, Integrated stratigraphy, Tephrostratigraphy, Tephrochronology, Age modelling, Marine exploration

Technical know-how

Geological sampling in marine exploration, Sampling preparation of environmental and volcanic matrices, Chemical analyses of environmental and volcanic matrices using: Nicolet FT-IR, UV-visibile, ICP-AES, ICP-MS, VGA, HR-ICP-MS, SEM-EDS, EMPA WDS, TIMS, XRF

Bibliometrics

Author or co-author of:
n° 24 papers on international, peer-reviewed journal;
n° 9 extended abstract on scientific book;
n° 13 geochemistry reports;
n° 42 abstract at national and international meetings

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Scopus Author ID: 36977272700

Citations: 330 total by 284 documents

h-index: 8

Co-authors: 94

Research project 2005-2015

She has been involved in the following research projects:

- 1) Scientific collaboration OV-IAMC 2015-2016;
- 2) VISAS (Valorizzazione Integrata dei Siti Archeologici Subacquei); PAC02L2_00040, 2015-2016;
- 3) RITMARE Italian flag project (Pianificazione dello spazio marittimo nell'ambiente di mare profondo); Work Package 2 "Mappatura degli habitat, impatti antropici e servizi ecosistemici", Azione 2 "Processi di immissione, trasferimento e diffusione dei contaminanti e loro effetti sugli ecosistemi marini profondi", 2012-2016;
- 4) Infrastruttura-AMICA (Infrastruttura di Alta tecnologia per il Monitoraggio Integrato Climatico-Ambientale); PONa3_00363; MIUR D.D. 254/RIC 18/05/2011. 2012-2013;
- 5) VIGOR (Valutazione del Potenziale Geotermico delle Regioni Convergenza); POI 2007-2013, FESR, QSN 2007-2013. 2010-2012;
- 6) S.I.A.SIC (Studio sull'impatto dei Relitti Bellici e Mercantili sulla Pesca nello Stretto di Sicilia ed in altri Mari Siciliani); Regione Sicilia D.D.G.n. 606 31/12/2009. 2010-2012;
- 7) INGV-DPC Volcanology V3-3 "Research on active volcanoes, precursors, scenarios, hazard and risk", Sub-project "Ischia", Task 2 "Volcanology and geochronology". 2005-2007.

Oceanographic cruise 2007-2015

She has been involved in the following research cruise:

- 1) SAFE_2015 on board of Minerva Uno R/V, June 2015;
- 2) ANOMCITY_2015 on board of Minerva Uno R/V, June 2015;

- 3) SAFE_2014 on board of Urania R/V, August 2014;
- 4) ANOMCITY_2014 on board of Minerva Uno R/V, June 2014;
- 5) MILAZZO_2013 on board of Urania R/V, January 2014;
- 6) I_AMICA_2013-02 on board of Astrea R/V, June 2013;
- 7) I_AMICA_2012-02 on board of Astrea R/V, October 2012;
- 8) ANOMCITY_2012 on board of Urania R/V, January 2012;
- 9) SIC.SIA_2011 on board of Urania R/V, January 2011;
- 10) Aeolian_2010 on board of Urania R/V, May 2010;
- 11) Aeolian_2001 on board of Urania R/V, November 2007.

Teaching

Seminar at IAMC-CNR “Laboratorio di geochimica: tecniche di preparazione di matrici ambientali per la determinazione analitica di elementi in tracce tramite spettrofotometria a plasma indotto”, Napoli, Italy 2013;
Seminar at IAMC-CNR “Contaminazione chimica in ambiente marino”, Napoli, Italy 2013.

International Collaborations

Laboratoire des Sciences du Climat et de l'Environnement (LSCE) - CNRS Gif-sur-Yvette, France
Ecole Normale Supérieure, Département de Géosciences, Paris Cedex 5, France

International peer-reviewed papers and book chapter

- 1) P. Rumolo, M. Carannante, S. Gherardi, S. **Tamburrino**, M. Vallefucio, R. Migliaccio, C. D'Argenzio, M. Barra, 2017. Measuring Stable Carbon and Nitrogen Isotopes in *Mytilus galloprovincialis* to elucidate the Sources of Organic Matter in three different nearshore marine environments. *Journal of Coastal Research* 33(5), 1172-1181. DOI: <http://dx.doi.org/10.2112/JCOASTRES-D-16-00079.1>. ISSN 0749-0208, IF 0.915
- 2) Cuoco, E., Minissale, A.A., Di Leo, M., **Tamburrino, S.**, Iorio, M., Tedesco, D., 2017. Fluid Geochemistry of the Mondragone hydrothermal systems (southern Italy): water and gas composition versus geostructural setting. *International Journal of Earth Sciences* 1-16, <http://dx.doi.org/10.1007/s00531-016-1439-4>. ISSN: 1437-3254; IF 2.133
- 3) **S. Tamburrino**, Insinga D.D., Pelosi N., Kissel C., Laj C., Capotondi L., Sprovieri M., 2016. Tephrochronology of a ~ 90 ka-long marine record in the Marsili Basin (southern Tyrrhenian Sea). *Journal of Volcanology and Geothermal Research* 237, 23-39. DOI: <http://dx.doi.org/10.1016/j.jvolgeores.2016.07.002>. ISSN: 0377-0273; IF 2.543
- 4) S. Passaro, **S. Tamburrino**, M. Vallefucio, S. Gherardi, M. Sacchi, G. Ventura, 2016. High-resolution morphobathymetry of the Gulf of Naples (scale 1:50.000), Eastern Tyrrhenian Sea. *Journal of Maps* 12, 203-210. DOI: <http://dx.doi.org/10.1080/17445647.2016.1191385>. ISSN: 1744-5647; IF: 1.193
- 5) S. Innangi, S. Passaro, R. Tonielli, G. Milano, G. Ventura, **S. Tamburrino**, 2016. Seafloor mapping using high-resolution multibeam backscatter: The Palinuro Seamount (Eastern Tyrrhenian Sea). *Journal of Maps*, 12(5), 736-746. DOI: <http://dx.doi.org/10.1080/17445647.2015.1071719>. ISSN: 1744-5647; IF: 1.193
- 6) Paoletti V., Passaro S., Fedi M., Marino C., **Tamburrino S.**, Ventura G., 2016. Sub-circular conduits and dikes offshore the Somma-Vesuvius volcano revealed by magnetic and seismic data. *Geophysical Research Letters* 9544-9551. DOI: <http://dx.doi.org/10.1002/2016GL070271>. ISSN: 1944-8007; IF 4.212
- 7) M. Pepi, M. Borra, **S. Tamburrino**, M. Saggiomo, A. Viola, E. Biffali, C. Balestra, M. Sprovieri, R. Casotti, 2016. A *Bacillus* sp. isolated from sediments of the Sarno River mouth, Gulf of Naples (Italy) produces a biofilm biosorbing Pb(II). *Science of the Total Environment* 562, 588-595. DOI: <http://dx.doi.org/10.1016/j.scitotenv.2016.04.097>. ISSN: 0048-9697; IF 4.099
- 8) P. Petrosino, S. Morabito, B.R. Jichad, A. Milia, M. Sprovieri, **S. Tamburrino**, 2016. Multidisciplinary tephrochronological correlation of marker events in the eastern Tyrrhenian Sea between 48 and 105 ka. *Journal of Volcanology and Geothermal Research* 315, 79-99. DOI: <http://dx.doi.org/10.1016/j.jvolgeores.2016.02.001>. ISSN: 0377-0273; IF 2.543
- 9) Passaro S., **Tamburrino S.**, Vallefucio M., Tassi F., Vaselli O., Giannini L., Chiodini G., Caliro S., Sacchi M., Rizzo A.L., Ventura G., 2016 Seafloor doming driven by mantle degassing unveils sprouting volcanism in coastal areas. *Scientific Reports* 6, 22448. DOI: <http://dx.doi.org/10.1038/srep22448>. ISSN: 2045-2322; IF 5.578
- 10) **Tamburrino S.**, Vallefucio M., Ventura G., Insinga D., Sprovieri M., Tiepolo M., Passaro S., 2015. The proximal marine record of the Marsili Seamount in the last 7 ka (Southern Tyrrhenian Sea, Italy): implications for the active processes in the Tyrrhenian Sea back-arc. *Global and Planetary Change* 133, 2-16. DOI: <http://dx.doi.org/10.1016/j.gloplacha.2015.07.005>. ISSN: 0921-8181; IF 2.766
- 11) Bonsignore M., **Tamburrino S.**, Oliveri E., Marchetti A., Durante C., Berni A., Quinci E., Sprovieri M., 2015. Tracing mercury pathways in Augusta Bay (southern Italy) by total concentration and isotope determination. *Environmental Pollution* 205, 178-185. DOI: <http://dx.doi.org/10.1016/j.envpol.2015.05.033>. ISSN: 0269-7491; IF 4.143;
- 12) Corniello A., Cerdicchio N., Cavuoto G., Cuoco E., Ducci D., Minissale A., Mussi M., Petruccione E., Pelosi N., Rizzo E., Polemio M., **Tamburrino S.**, Tedesco D., Tiano P., Iorio M., 2015. Hydrogeological characterization of a

- geothermal system: the case of the thermo-mineral area of Mondragone (Campania, Italy). *International Journal of Environmental Research* 9(2), 523-534. ISSN: 1735-6865; IF 1,100
- 13) Morabito S., Petrosino P., Milia A., Sprovieri M., **Tamburrino S.**, 2014 A multidisciplinary approach for reconstructing the stratigraphic framework of the last 40 ka in a bathial area of the eastern Tyrrhenian Sea. *Global and Planetary Change* 123, 121-138. DOI: <http://dx.doi.org/10.1016/j.gloplacha.2014.10.005>. ISSN: 0921-8181; IF: 2,766;
 - 14) Sprovieri M., Barra M., Del Core M., Di Martino G., Gherardi S., Innangi S., Oliveri E., Passaro S., Romeo T., Rumolo P., Salvagio Manta D., **Tamburrino S.**, Tonielli R., Traina A., Vallefucio M., Mazzola S., Andaloro F., "Marine pollution from shipwrecks at the sea bottom: a case study from the Mediterranean basin". In: *Mediterranean Sea: Ecosystems, Economic Importance and Environmental Threats*, della serie Marine Biology Oceanography and Ocean Engineering, pp 35-64. Nova Science Publishers, Inc. (New York) ISBN: 978-1-62618-239-4 (e-Book);
 - 15) Passaro S., Genovese S., Sacchi M., Barra M., Rumolo P., **Tamburrino S.**, Mazzola S., Basilone G., Placenti F., Aronica S., Bonanno A., 2014. First hydroacoustic evidences of marine, active fluid vents in the Naples Bay continental shelf (Southern Italy). *Journal of Volcanology and Geothermal Research* 285. 29-35. DOI: <http://dx.doi.org/10.1016/j.jvolgeores.2014.08.001>. ISSN: 0377-0273; IF 2,193;
 - 16) Iorio M., Liddicoat J., Budillon F., Inconato A., Coe R., Insinga D.D., Cassata W., Lubritto C., Angelino A., **Tamburrino S.**, 2014. Combined palaeomagnetic secular variation and petrophysical records to time-constrain geological and hazardous events: an example from eastern Tyrrhenian Sea in the last 120 ka. *Global and Planetary Change* 113, 91-109. DOI: <http://dx.doi.org/10.1016/j.gloplacha.2013.11.005>. ISSN: 0921-8181; IF: 2,766;
 - 17) Insinga D.D., **Tamburrino S.**, Lirer F., Vezzoli L., Barra M., De Lange G.J., Tiepolo M., Vallefucio M., Mazzola S., Sprovieri M., 2014. Tephrochronology of the astronomically-tuned KC01B deep-sea core, Ionian Basin: insights into the explosive activity of the Central Mediterranean area between 16 ka and 200 ka. *Quaternary Science Review* 85, 63-84. DOI: <http://dx.doi.org/10.1016/j.quascirev.2013.11.019>. ISSN 0277-3791; IF 4,572;
 - 18) Bellante A., Salvagio Manta D., Traina A., Buscaino G., Buffa G., Barra M., **Tamburrino S.**, Mazzola S., Sprovieri M., 2013. Trace elements in tissues of Sperm Whales stranded along the Italian coast. *Chemistry and Ecology* 25(5), 311-323. DOI: <http://dx.doi.org/10.1080/02757540.2013.769972>. ISSN: 1029-0370; IF 1.047;
 - 19) Lirer, F., Sprovieri, L. Ferraro, Vallefucio M., Capotondi L., Cascella A., Petrosino P., Insinga D.D., Pelosi N., **Tamburrino S.**, Lubritto C., 2013. Integrated stratigraphy for the Late Quaternary in the eastern Tyrrhenian Sea. *Quaternary International* 292, 71-85. DOI: <http://dx.doi.org/10.1016/j.quaint.2012.08.2055>. ISSN: 1040-6182; IF 2,062;
 - 20) **Tamburrino S.**, Insinga D., Sprovieri M., Petrosino P., Tiepolo M., 2012. Major and trace element characterization of tephra layers offshore Pantelleria Island: insights into the last 200 ka of volcanic activity and implications for the Mediterranean tephrochronology. *Journal of Quaternary Science* 27(2), 129-140. DOI: <http://dx.doi.org/10.1002/jqs.1504>. ISSN 1099-1417; IF 3,357;
 - 21) Sprovieri M., Feo M.L., Prevedello L., Salvagio Manta D., Sammartino S., **Tamburrino S.**, Marsella E., 2007. Heavy Metals, Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenils in surface sediments of the Naples harbour (Southern Italy). *Chemosphere* 67, 998-1009. DOI: <http://dx.doi.org/10.1016/j.chemosphere.2006.10.055>. ISSN: 0045-6535; IF 3,340.