

Elena Papale

Institute for the Study of Anthropogenic Impacts and Sustainability in the Marine Environment, National Research Council, Italy

and

Department of Life Science and Systems Biology, University of Torino, Italy

Place and date of birth: Pavia (Italy), 12 September 1983

Citizenship: Italian

Current affiliation: Institute for the Study of Anthropogenic Impacts and Sustainability in the Marine Environment, National Research Council, via del mare 3, Torretta Granitola, 91021 Campobello di Mazara (TP), Italy.

Other affiliation: Department of Life Science and Systems Biology, University of Torino, Via Accademia Albertina 13, 10123 Torino, Italy

H Index: 19 (Scopus)

Total Citations: 987 (Scopus)

Education:

- PhD (2008-2011, final defense 24 February 2012) Evolutionary Biology and Biodiversity Conservation, University of Torino: "Acoustics and conservation in dolphins' species".
- MSc (22 November 2007) Evolution of Animal and Human Behavior 110/110, University of Torino: "Land-based survey of *Tursiops truncatus* interaction with boat traffic in Lampedusa Island"
- BSc (26 September 2005) Natural Sciences, 108/110, University of Pavia, "Hydro-biological and fish characterization of the Pavia's plane."

Research Employment:

- Senior Researcher. From January 2023, National Research Council of Italy
- Researcher. November 2019- December 2022, National Research Council of Italy
- Tenure track Researcher (RTDB). January 2019- October 2019, University of Torino
- Postdoc Research Fellow. July 2018 - December 2018, University of Torino
- Senior Postdoc Research Fellow. July 2017 - June 2018, National Research Council – Institute for Marine and Coastal Environment
- Postdoc Research Fellow. June 2014 - December 2016, National Research Council – Institute for Marine and Coastal Environment
- Postdoc Research Fellow. November 2013 - May 2014, University of Torino
- Postdoc Research Fellow. December 2012 - June 2013, University of Torino

Professional Qualifications:

- National Scientific Qualification (ASN) in Zoology and Anthropology, 27 July 2018
<https://asn16.cineca.it/pubblico/miur/esito/05%252FB1/2/5>

Main Project responsibilities:

1. Sedna, Principal Investigator 2023-2026
Whales as ecosystem sentinels: climate-induced changes on migration and feeding behavior in a pristine habitat model- Pilot project PRIN: PROGETTI DI RICERCA DI RILEVANTE INTERESSE NAZIONALE – Bando 2022, Prot. 2022BFKALC, Partners: University of Rome Sapienza, SZN
2. STEORIMA 2023
CNR Responsible for the Research activities on the interaction of dolphins and fishing gear through acoustic methods, aimed at studying the behaviour of dolphins in association with fishing activities. FEAMP, “Sviluppo ed introduzione di innovazioni tecniche ed organizzative per la conservazione delle risorse biologiche marine– Granted by SZN CUP J69J22000780007
1. Scientific agreement, Co-responsible 2021-2022 IAS-CNR and SZN on the study of marine mammals in the Sicily Strait
2. DelPHEos, Principal Investigator 2020-2021
IAS 0001602/2020, Occurrence and distribution of *Tursiops truncatus* in relation to key coastal habitats and interactions with fishing activity in the area of Tiber and Pontine Archipelago – PO FEAMP 2014/2020 Misura 1.40
3. CalvingSeis 2015-2018
Italian Responsible for the acoustic monitoring of marine mammals. NFR no 244196/E10, Norwegian Research Council, Klimaforsk program (FRIKLIM). Partners: University of Oslo, NORSAR, Universität zu Kiel, GAMMA Remote Sensing, Norwegian Polar Institute
4. CAIMAR Joint Laboratory 2017- 2021
Italian Responsible for the acoustic monitoring of marine mammals. Joint Lab Italia-Argentina. Funded by National Research Council-International Bilateral Joint Laboratories - topic "Earth System Science and Environmental Technologies". Partners: Instituto de Investigaciones Marinas y Costeras IIMyC-CONICET, Universidad Nacional de Mar del Plata, CENPAT, UTN-FRCH.
5. SOS-PIATTAFORME 2017-2019
Responsible for the evaluation of AirGun effects on marine mammals. Funded by The Ministry for Environment, Land and Sea Protection of Italy
6. SySTeMiC 2017-2019
Italian Responsible for the acoustic monitoring of marine mammals. Sea Soundscape in Fiji waters as a tool for the local management of the marine and Coastal zone. Funded by University of South Pacific. Partners: University of South Pacific.
7. BOSS 2017 -2019
Italian Responsible for the acoustic monitoring of marine mammals. Project of great relevance - Bioacoustics studies and applications for the sustainable exploitation of marine resources. Funded by Ministry of Foreign Affairs and International Cooperation. Partners: Instituto de Investigaciones Marinas y Costeras IIMyC-CONICET, Universidad Nacional de Mar del Plata, CENPAT, UTN-FRCH

Main Project participation:

1. RDS – Energia elettrica dal mare . PIANO TRIENNALE DI REALIZZAZIONE 2022-2024 DELLA RICERCA DI SISTEMA ELETTRICO NAZIONALE. Activities under WP3- LA 3.4: Noise into the marine ecosystem and noise impact assessment on marine biodiversity WP3-LA 3.11: Assessment of noise into the marine environment by the experimental wind farm and estimation of the potential impact on marine organisms
2. ITINERIS - Italian Integrated Environmental Research Infrastructures System Activities under WP5 – Potenziamento dell’infrastruttura cablata GRANSEA Capo Granitola. PNRR M4C2 Inv.3.1 IR - infrastrutture ricerca
3. NBFC- National Biodiversity Future Center Activities under Spoke 1 – Mapping and monitoring actions to preserve marine ecosystem biodiversity and functioning WP3 - Innovative strategies to conserve marine biodiversity and achieve EU targets PNRR
4. DELFIHPAM- Dolphin passive acoustics to develop a baseline knowledge on the use of protected areas and on the interactions with fishing and aquaculture activities in the eastern part of the Maltese Islands. Financed by Xjenza Malta
5. ITEM - Innovazione tecnologica per la tutela e valorizzazione degli ecosistemi marini - CTN02_00059_9948371 – D.D.1610/2016 – “Sviluppo e potenziamento di nuovi 4 Cluster Tecnologici Nazionali” Programma D.D.1610/2016 BIG – BLUE ITALIAN GROWTH- D.D. Financed by MIUR prot. 823, 2019.
1. Marine Strategy Activities under WP7 Noise Monitoring and WP 2.13 Marine mammals and turtles surveys 2016 -2018, IAMC 0008651 The Italian Ministry for Environment, Land and Sea Protection
2. Soundscape of green turtle foraging habitats in Fiji, South Pacific Participation to sampling campaign September-October 2018 Funded by Pacific Islands Regional Office of the United States National Oceanic and Atmospheric Administration and Ministry of Fisheries of Fiji grant NA17NMF4540081
3. BIO4U - Inventario della biodiversità marina siciliana. Use of GIS systems to assess cetacean abundance and distribution. Analysis of acoustic signals of biological origin. Photo-identification techniques of cetaceans 2014-2015 Sicily Region and Earth System Science and Environmental Technologies
4. RITMARE. Activities under SP6_WP1_AZ6_D2 and SP1_WP2 Marine mammal acoustic data collection and management of acoustic data 2015-2016 Italian Ministry of University and Research
5. REMOTO Energy Recovery by waves FESR 2007-2013 4.1.1.1 Acoustic data collection and management of acoustic infrastructure 2014-2015 Funded by Sicily Region - Regional Department of Productive Activities
6. EMSO MEDIT - Enhancement of multidisciplinary marine research infrastructures in Sicily, Campania and Puglia as a contribution to ESFRI EMSO Acoustic data collection and management of acoustic infrastructure 2014-2015 PON R&C 2007-2013 - PAC Enhancement of infrastructures for public research. Italian Ministry of University and Research

Main Consultancy Activity

- iLStudioEngineering & Consulting Studio 2021 Monitoring activity for baseline assessment of Noise and marine mammal presence for the implementation of marine offshore wind farms
- Fondazione Acquario di Genova Onlus 2021-2022 Study of the presence of cetaceans in the Strait of Sicily and more specifically in the waters of the Banco Avventura, within the boundaries of the continental shelf (200 m depth), as part of the InterMed project activities
- Università di Scienze Gastronomiche 2022-2024 Monitoring activity for baseline assessment of Noise and marine mammal presence for the implementation of marine offshore wind farms

Awards and Grants:

- Short-term mobility grant 2024 Proponent for the National Research Council for Dr Marc Lammers (NOAA and University of Hawaii, USA). Program title: Tagging whales to study their feeding behavior in a changing Arctic
- Short-term mobility grant 2021 Proponent for the National Research Council for Dr Irma Margarida Cascao (Azores Whale Lab, Institute of Marine Research and Okeanos R&D Centre, University of the Azores, Portugal) Program title: Acoustic identification of baleen whales migratory routes in the North Atlantic Ocean
- Premio Dirigibile Italia Giovani, 3rd position for the best research project in Svalbard Islands, 30/12/2016, Earth System Science and Environmental Technologies Department, National Research Council
- Italian Zoological Union Award, 22/09/2014
- Italian Zoological Union Award, 30/09/2013
- Erasmus Grant, University of Gran Canaria, 2011, University of Torino
- INPDAP Grant for supporting PhD students 2009

Recent Teaching Activity:

- Evolution of Animal Behavior, MSc course 3CFU, University of Torino, Department of Life Sciences and Systems Biology, 2019-2024
- Marine Soundscape and Bioindicators of Acoustic Pollution, MSc course 3 CFU, University of Torino, Department of Life Sciences and Systems Biology, 2018-2025
- Zoology, BSc courses Natural Sciences and Biology, laboratory activity, University of Torino, Department of Life Sciences and Systems Biology, 2018-2019, 2019-2020.

Supervisor PhD thesis:

- Marzia Baldachini Interdisciplinary evaluation of the impacts of offshore renewable energies to support an eco-sustainable approach to the marine environment: Assessing the acoustic impacts of operational floating offshore wind farms sound on marine mammals and turtles - PhD course in Sustainable Development and Cooperation 37th Cycle. University of Torino.
- Laura Pintore Assessing the anthropogenic noise pressure on fin whales in the Pelagos Sanctuary, PhD course in Biological Sciences and Applied Biotechnologies 34th Cycle. University of Torino.

Academic Supervisor of 14 MSc and 2 BSc theses

Co-Supervisor of 7 Bsc and Msc Thesis at the University of Torino, Rome La Sapienza, Palermo, Bari, Catania, Mar del Plata (Argentina)

Main publications

1. Baldachini M., **Papale E.**, Shearer J.M., Wells R.S., Jensen F.H. 2025 Drivers of biosonar click rates in bottlenose dolphins (*Tursiops truncatus*) over the West Florida Shelf. *Frontiers in Marine Science*
2. Darras K.F.A, ...**Papale E.**,... Wanger T.C. 2025 Worldwide Soundscapes: A Synthesis of Passive Acoustic Monitoring Across Realms. *Global Ecology and Biogeography*
3. **Papale E.**, Ceraulo M., Gregoriotti M., De Vita C., Buscaino G., 2025 Assessing the effectiveness of acoustic signals in mark-recapture studies to estimate dolphins' population size. *Current Zoology*

4. Bellingeri, M., Nebuloni, A., La Manna, G., ... **Papale** E.,... Gnone, G. 2025 Investigating the presence of different bottlenose dolphin ecotypes in the Mediterranean Sea. Scientific Reports
5. Chicco, C., **Papale**, E., Wensveen, P.J., Mouy, X., Samarra, F.I.P. 2025 Using acoustic monitoring to reveal nearly year-round presence of humpback whales (*Megaptera novaeangliae*) in the waters of southern Iceland. Marine Mammal Science
6. Baldachini, M., Pace, F., Buscaino, G., ... Burns, R.D.J., **Papale**, E. 2025 Assessing the potential acoustic impact of floating offshore wind farms in the Central Mediterranean Sea. Marine Pollution Bulletin
7. Blakeman, S., Salazar, J.M., Villalba, N., ... **Papale**, E., Cosentino, M. 2025 Regular Presence of Harbor Porpoises in the Northern Alborán Sea. Marine Mammal Science
8. Giardino, G., Denuncio, P., **Papale**, E., ... Bastida, R., Rodríguez, D. 2025 The acoustic detection of the Franciscana dolphin (*Pontoporia blainvillei*), in open sea off the coast of Argentina. New Zealand Journal of Marine and Freshwater Research
9. Ceraulo, M., Buscaino, G., Marcelli, G., ... Piovano, S., **Papale**, E. 2024 Chatting behind the reef: Fish bioacoustic diversity of tropical back-reefs in Fiji, South Pacific. Marine Environmental Research
10. Mauro, M., Vazzana, M., Ceraulo, M.,... **Papale** E., ... Vizzini, A., Buscaino, G. 2024 Effects of seismic water guns on the peristomial membrane of sea urchins (*Arbacia lixula*, Linnaeus 1758). Marine Pollution Bulletin
11. Baldachini, M., Burns, R.D.J., Buscaino, G., **Papale** E, Racca R., Wood, M.A., Pace, F. 2024 Modeling the Underwater Sound of Floating Offshore Windfarms in the Central Mediterranean Sea. Journal of Marine Science and Engineering
12. Carlucci, R., Cipriano, G., Bonato, M., ... Santacesaria, F.C., **Papale**, E. 2024 Anthropogenic noise effects on Risso's dolphin vocalizations in the Gulf of Taranto (Northern Ionian sea, Central Mediterranean sea). Ocean and Coastal Management
13. Pace, D.S., Pedrazzi, G., D'amario, I., ... Ardizzone, G., **Papale**, E. 2024 The Acoustic Ecology of Coastal Dolphins by Assessing the Structural Variability of Sounds and the Influence of Contextual Factors. Integrative Zoology
14. Romagosa M., Nieukirk S., Cascão I, Marques T.A., Dziak R., Royer J.Y., O'Brien J., Mellinger D.K., Pereira A., Ugalde A., **Papale** E., Aniceto S., Buscaino G., Rasmussen M., Matias L., Prieto R., Silva M.A. 2024 Fin whale song evolution in the North Atlantic. Elife
15. Buscaino, G., Arculeo, M., Cambera, I., ... Carillo, A., **Papale**, E. 2023 Soundscape of a Mediterranean seashore during loggerhead sea turtle (*Caretta caretta*) spawning season. Marine Pollution Bulletin
16. **Papale**, E., Pelagatti, M., Pedrazzi, G., Buscaino, G. 2023 Occurrence and patterns of fin whale songs reveal alternative migration strategies in Svalbard Islands, Norway. Scientific Reports
17. Akkaya, A., Awbery, T., Medcalf, K., ...**Papale** E., Fanizza, C., Carlucci, R. 2023 Initial results on the variation of whistle characteristics of bottlenose dolphins from two neighbouring regions of the Mediterranean Sea: Northern Ionian and Southern Adriatic Sea. Frontiers in Marine Science
18. Blasi M; Alessi J; Melodia C; Azzolin M; Giacomina C; Buscaino G; Buffa G; Ceraulo M; Monaco C; Bruccoleri F; Cafaro V; Raffa A; **Papale**, E 2022 Bottlenose dolphins' fin marks comparison highlights limited movements and anthropogenic threats in the waters around Sicily (Italy, Central Mediterranean Sea). Hydrobiologia
19. Ceraulo M, Sal Moyano MP, Bazterrica MC, Hidalgo FJ, Snitman S, **Papale** E, Buscaino G, Gavio MA 2022 Agonistic Behaviour and Sound Production during Male–Male Varunid Crabs (*Cyrtograpsus angulatus*, Dana 1851) Encounters. Journal of Marine Science and Engineering

20. Pace, DS; Tumino, C; Silvestri, M; Giacomini, G; Pedrazzi, G; Pavan, G; **Papale**, E; Ceraulo, M; Buscaino, G; Ardizzone, G 2022 Bray-Call Sequences in the Mediterranean Common Bottlenose Dolphin (*Tursiops truncatus*) Acoustic Repertoire. Biology
21. Pace DS., Ferri S., Giacomini G., Di Marco C., **Papale** E., Silvestri M., Pedrazzi G., Ventura D., Casoli E., Ardizzone G. 2022 Resources and population traits modulate the association patterns in the common bottlenose dolphin living nearby the Tiber River estuary (Mediterranean Sea). Frontiers in Marine Science
22. **Papale**, EB; Azzolin, MA; Cascao, I; Gannier, A; Lammers, MO; Martin, VM; Oswald, JN; Perez-Gil, M; Prieto, R; Silva, MA; Torri, M; Giacoma, C 2021 Dolphin whistles can be useful tools in identifying units of conservation. BMC ZOOLOGY
23. Luis, AR; May-Collado, LJ; Rako-Gospic, N; Gridley, T; **Papale**, E; Azevedo, A; Silva, MA; Buscaino, G; Herzing, D; dos Santos, ME 2021 Vocal universals and geographic variations in the acoustic repertoire of the common bottlenose dolphin. Scientific Reports
24. Pintore, L; Sciacca, V; Viola, S; Giacoma, C; **Papale**, E*; Giorli, G* 2021 Fin Whale (*Balaenoptera physalus*) in the Ligurian Sea: Preliminary Study on Acoustics Demonstrates Their Regular Occurrence in Autumn. Journal of Marine Science and Engineering
25. Buscaino, G; Ceraulo, M; Alonge, G; Pace, DS; Grammauta, R; Maccarrone, V; Bonanno, A; Mazzola, S; **Papale**, E 2021 Artisanal fishing, dolphins, and interactive pinger: A study from a passive acoustic perspective. Aquatic Conservation-Marine and Freshwater Ecosystems
26. Pace, DS; Di Marco, C; Giacomini, G; Ferri, S; Silvestri, M; **Papale**, E; Casoli, E; Ventura, D; Mingione, M; Di Loro, PA; Lasinio, GJ; Ardizzone, G 2021 Capitoline Dolphins: Residency Patterns and Abundance Estimate of *Tursiops truncatus* at the Tiber River Estuary (Mediterranean Sea). Biology
27. Buscaino, G; Ceraulo, M; Canale, DE; **Papale**, E; Marrone, F 2021 First evidence of underwater sounds emitted by the living fossils *Lepidurus lubbocki* and *Triops cancriformis* (Branchiopoda: Notostraca). Aquatic Biology
28. Gregoriotti, M; **Papale**, E; Ceraulo, M; de Vita, C; Pace, DS; Tranchida, G; Mazzola, S; Buscaino, G 2021 Acoustic presence of dolphins through whistles detection in Mediterranean shallow waters. Journal of Marine Science and Engineering
29. Buscaino G., Picciulin M., Canale D. E., **Papale** E., Ceraulo M., Grammauta R., Mazzola S. 2020 Spatio-temporal distribution and acoustic characterization of haddock (*Melanogrammus aeglefinus*, *Gadidae*) calls in the Arctic fjord Kongsfjorden (Svalbard Islands). Scientific Reports
30. **Papale**, E; Fanizza, C; Buscaino, G; Ceraulo, M; Cipriano, G; Crugliano, R; Grammauta, R; Gregoriotti, M; Reno, V; Ricci, P; Santacesaria, FC; Maglietta, R; Carlucci, R 2020 The social role of vocal complexity in striped dolphins. Frontiers In Marine Science
31. **Papale**, E; Alonge, G; Grammauta, R; Ceraulo, M; Giacoma, C; Mazzola, S; Buscaino, G 2020 Year-round acoustic patterns of dolphins and interaction with anthropogenic activities in the Sicily Strait, central Mediterranean Sea. Ocean & Coastal Management
32. Ceraulo, M; Sal Moyano, MP; Bazterrica, MC; Hidalgo, FJ; **Papale**, E; Grammauta, R; Gavio, MA; Mazzola, S; Buscaino, G 2020 Spatial and temporal variability of the soundscape in a Southwestern Atlantic coastal lagoon. Hydrobiologia
33. Vazzana, M; Ceraulo, M; Mauro, M; **Papale**, E; Dioguardi, M; Mazzola, S; Arizza, V; Chiamonte, M; Buscaino, G 2020 Effects of acoustic stimulation on biochemical parameters in the digestive gland of Mediterranean mussel *Mytilus galloprovincialis* (Lamarck, 1819). Journal of the Acoustical Society of America
34. Vazzana, M; Mauro, M; Ceraulo, M; Dioguardi, M; **Papale**, E; Mazzola, S; Arizza, V; Beltrame, F; Inguglia, L; Buscaino, G 2020 Underwater high frequency noise: Biological responses in sea

- urchin *Arbacia lixula* (Linnaeus, 1758). Comparative Biochemistry and Physiology -Part A: Molecular and Integrative Physiology
35. **Papale** E., Prakash S., Singh S., Batibasaga A., Buscaino G., Piovano S. 2020 Soundscape of green turtle foraging habitats in fiji, South Pacific *PLoS ONE*
 36. Buscaino G., Mattiazzi G., Sannino G.M., **Papale** E., Bracco G., Grammauta R., Carillo A., Kenny J.M., De Cristofaro N., Ceraulo M., Mazzola S. 2019 Acoustic impact of a wave energy converter in the Mediterranean shallow waters. Scientific Reports
 37. de Vincenzi G., Parisi I., Torri M., **Papale** E., Mazzola S., Nuth C., Buscaino G. 2019 Influence of environmental parameters on the use and spatio-temporal distribution of Arctic seal *Erignathus barbatus* vocalisations in Kongsfjorden, Svalbard Islands. Polar Biology
 38. Azzolin M., Gannier A., **Papale** E., Buscaino G., Mussi B., Ardizzone G., Giacoma C., Pace D. 2019 Whistle variability of Mediterranean short-beaked common dolphin. Aquatic conservation: Marine and Freshwater Ecosystems
 39. **Papale** E., Alonge G., Caruso F., Grammauta R., Mazzola S., Mussi B., Pace D.S., Buscaino G. 2019 The higher, the closer, the better? Influence of sampling frequency and distance on the acoustic properties of short-beaked common dolphins burst pulses in the Mediterranean Sea. Aquatic conservation: Marine and Freshwater Ecosystems
 40. Ceraulo M., **Papale** E., Caruso F., Filiciotto F., Grammauta R., Parisi I., Mazzola S., Farina A., Buscaino G. 2018 Acoustic comparison of a patchy Mediterranean shallow water seascape: *Posidonia oceanica* meadow and sandy bottom habitats. Ecological Indicators
 41. Reggente MALV, **Papale** E., McGinty N., Eddy L, de Lucia G.A., Bertulli C.G. 2018 Social relationships and death-related behaviour in aquatic mammals: a systematic review. Philosophical Transaction of the Royal Society B
 42. Parisi I., de Vincenzi G., Torri M., **Papale** E., Mazzola S., Bonanno A., Buscaino G. 2017 Underwater vocal complexity of Arctic seal *Erignathus barbatus* in Kongsfjorden (Svalbard). Journal of the Acoustical Society of America
 43. Caruso F., Alonge G., Bellia G., De Domenico E., Grammauta R., Larosa G., Mazzola S., Riccobene G., Pavan G., **Papale** E., Pellegrino C., Pulvirenti S., Sciacca V., Simeone F., Speziale F., Viola S., Buscaino G. 2017 Long-Term Monitoring of Dolphin Biosonar Activity in Deep Pelagic Waters of the Mediterranean Sea. Scientific Reports
 44. Riondato, I; Cissello, E; **Papale**, E; Friard, O; Gamba, M; Giacoma, C 2017 Unsupervised Acoustic Analysis of the Vocal Repertoire of the Gray-Shanked Douc Langur (*Pygathrix cinerea*). Journal of Computational Acoustics
 45. **Papale**, E; Ceraulo, M; Giardino, G; Buffa, G; Filiciotto, F; Grammauta, R; Maccarrone, V; Mazzola, S; Buscaino, G 2017 Association patterns and population dynamics of bottlenose dolphins in the Strait of Sicily (Central Mediterranean Sea): implication for management. Population Ecology
 46. **Papale**, E; Perez-Gil, M; Castrillon, J; Perez-Gil, E; Ruiz, L; Servidio, A; Tejedor, M; Giacoma, C; Martin, V 2017 Context specificity of Atlantic spotted dolphin acoustic signals in the Canary Islands. Ethology Ecology & Evolution
 47. Caruso, F; Sciacca, V; Bellia, G; De Domenico, E; Larosa, G; **Papale**, E; Pellegrino, C; Pulvirenti, S; Riccobene, G; Simeone, F; Speziale, F; Viola, S; Pavan, G 2015 Size Distribution of Sperm Whales Acoustically Identified during Long Term Deep-Sea Monitoring in the Ionian Sea. PLoS One
 48. Bonato, M., **Papale**, E., Pingitore, G., Ricca, S., Attoumane, A., Ouledi, A., Giacoma, C. 2015 Whistle characteristics of the spinner dolphin population in the Comoros Archipelago. Journal of the Acoustical Society of America

49. Sciacca V; Caruso, F; Beranzoli, L; Chierici, F; De Domenico, E; Embriaco, D; Favali, P; Giovanetti, G; Larosa, G; Marinaro, G; **Papale**, E; Pavan, G; Pellegrino, C; Pulvirenti, S; Simeone, F; Viola, S; Riccobene, G 2015 Annual Acoustic Presence of Fin Whale (*Balaenoptera physalus*) Offshore Eastern Sicily, Central Mediterranean Sea. PLoS One
50. **Papale**, E; Buffa, G; Filiciotto, F; Maccarrone, V; Mazzola, S; Ceraulo, M; Giacoma, C; Buscaino, G 2015 Biphonic calls as signature whistles in a free-ranging bottlenose dolphin. Bioacoustics-The International Journal Of Animal Sound And Its Recording
51. **Papale**, E; Gamba, M; Perez-Gil, M; Martin, VM; Giacoma, C 2015 Dolphins Adjust Species-Specific Frequency Parameters to Compensate for Increasing Background Noise. PLoS One
52. Azzolin, M; Gannier, A; Lammers, MO; Oswald, JN; **Papale**, E; Buscaino, G; Buffa, G; Mazzola, S; Giacoma, C 2014 Combining whistle acoustic parameters to discriminate Mediterranean odontocetes during passive acoustic monitoring. Journal of the Acoustical Society of America
53. **Papale**, E; Azzolin, M; Cascao, I; Gannier, A; Lammers, MO; Martin, VM; Oswald, J; Perez-Gil, M; Prieto, R; Silva, MA; Giacoma, C 2014 Acoustic divergence between bottlenose dolphin whistles from the Central–Eastern North Atlantic and Mediterranean Sea. Acta Ethologica
54. **Papale**, E; Azzolin, M; Cascao, I; Gannier, A; Lammers, MO; Martin, VM; Oswald, J; Perez-Gil, M; Prieto, R; Silva, MA; Giacoma, C 2014 Macro- and micro-geographic variation of short-beaked common dolphins' whistles in the Mediterranean Sea and Atlantic Ocean. Ethology, Ecology & Evolution
55. Azzolin, M; **Papale**, E; Lammers, MO; Gannier, A; Giacoma, C 2013 Geographic variation of whistles of the striped dolphin (*Stenella coeruleoalba*) within the Mediterranean Sea. Journal of the Acoustical Society of America
56. **Papale**, E; Azzolin, M; Cascao, I; Gannier, A; Lammers, MO; Martin, VM; Oswald, J; Perez-Gil, M; Prieto, R; Silva, MA; Giacoma, C 2013 Geographic variability in the acoustic parameters of striped dolphin's (*Stenella coeruleoalba*) whistles. Journal of the Acoustical Society of America
57. Giacoma, C; **Papale**, E; Azzolin, M 2013 Are Land Based Surveys a Useful Tool for Managing Marine Species of Coastal Protected Areas? Diversity
58. **Papale**, E; Azzolin, M; Giacoma, C 2012 Vessel traffic affects bottlenose dolphin (*Tursiops truncatus*) behaviour in waters surrounding Lampedusa Island, south Italy. Journal of the Marine Biological Association of the United Kingdom
59. La Manna, G; Clo, S; **Papale**, E; Sara, G 2010 Boat traffic in Lampedusa waters (Strait of Sicily, Mediterranean Sea) and its relation to the coastal distribution of common bottlenose dolphin (*Tursiops truncatus*). Ciencias Marinas