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EDUCATION:

2014 Ph.D. in ENVIRONMENTAL SCIENCES: MARINE ENVIRONMENT & RESOURCES

University of Messina - Department of Animal Biology and Marine Ecology
Underwater Acoustics/Signal Processing/Marine Mammals/Marine Technologies
Istituto Nazionale di Fisica Nucleare - Laboratori Nazionali del Sud (INFN - LNS)

2014 GUEST Ph.D. STUDENT at Woods Hole Oceanographic Institution (WHOI)

Gori Fellowship 2014, Department of Biology & Department of Geophysics

2010 M.Sc. in BIOLOGY AND ECOLOGY OF MARINE COASTAL ENVIRONMENT

University of Messina - Department of Animal Biology and Marine Ecology
Istituto Nazionale di Fisica Nucleare - Laboratori Nazionali del Sud (INFN - LNS)

2007 B.Sc. in MARINE BIOLOGY AND ECOLOGY

University of Messina - Department of Animal Biology and Marine Ecology
Interdisciplinary Center for Bioacoustics and Environmental Research (CIBRA), University of Pavia

PROFESSIONAL EXPERIENCE:

- 2021 Research Staff, Stazione Zoologica Anton Dohrn (SZN), Napoli, Italy
- 2017-present Postdoctoral Researcher, Institute of Deep-sea Science and Engineering (IDSSE), Chinese Academy of Sciences, *Marine Mammal and Marine Bioacoustics Lab*, Sanya, China
- 2017 Postdoctoral Investigator, Woods Hole Oceanographic Institution (WHOI), *Sensory Ecology and Bioacoustics Lab*, Woods Hole, MA, United States
- 2016 Researcher, MAGINOT project (*Integrated system for monitoring and protection of the urban, suburban and marine environments*) at National Research Council (IAMC-CNR), Italy
- 2015 Guest Investigator, Woods Hole Oceanographic Institution (WHOI), Departments of Biology and Applied Ocean Physics and Engineering, Woods Hole, MA, United States
- 2015 External Collaborator, Management of Marine Cabled Stations at IAMC-CNR (National Research Council), *Bioacoustics Lab*, Trapani, Italy
- 2014 Researcher, EMSO – MedIT project (*European Multidisciplinary Seafloor & water column Observatory*) at National Research Council (IAMC-CNR), Italy

RELEVANT PEER-REVIEW PUBLICATIONS (last 5 years):

1. Lin M, Liu M, **Caruso F** et al. (2020). A pioneering survey of deep-diving and off-shore cetaceans in the northern South China Sea. *Integrative Zoology* 00, 1–11. DOI: 10.1111/1749-4877.12508 (2019 IF: 2.514).
2. Rosso M, Lin M, **Caruso F** et al. (2020). First live sighting of Deraniyagala's beaked whale (*Mesoplodon hotaula*) or ginkgo-toothed beaked whale (*Mesoplodon ginkgodens*) in the western Pacific (South China Sea) with preliminary data on coloration, natural markings and surfacing patterns. *Integrative Zoology* 00, 1–11. DOI: 10.1111/1749-4877.12507 (2019 IF: 2.514).
3. **Caruso F**, Hickmott L, Warren JD et al. (2020). Diel differences in blue whale (*Balaenoptera musculus*) dive behavior increase nighttime risk of ship strikes in northern Chilean Patagonia. *Integrative Zoology* 00, 1–18. DOI: 10.1111/1749-4877.12501 (2019 IF: 2.514).
4. Wanxue Xu, Lijun Dong, **Francesco Caruso** et al. (2020). Long-term and large-scale spatiotemporal patterns of soundscape in a tropical habitat of the Indo-Pacific humpback dolphin (*Sousa chinensis*). *PLoS ONE* 15(8):e0236938. DOI: 10.1371/journal.pone.0236938 (2019 IF: 2.740).
5. Songhai Li, Mingli Lin, **Francesco Caruso** et al. (2020). Cetaceans under threat in South China Sea. *Science*;

- 368(6495):1074-1075. DOI: 10.1126/science.abc7557 (2019 IF: 20.570).
6. **Francesco Caruso** et al. (2020). Influence of acoustic habitat variation on Indo-Pacific humpback dolphin (*Sousa chinensis*) in shallow waters of Hainan Island, China. *The Journal of the Acoustical Society of America*, 147(6):3871-3882. DOI: 10.1121/10.0001384. (2019 IF: 1.780).
 7. **Francesco Caruso**, et al. (2020). Monitoring of a Nearshore Small Dolphin Species Using Passive Acoustic Platforms and Supervised Machine Learning Techniques. Methods Article, *Frontiers in Marine Science*. doi:10.3389/fmars.2020.00267. (2019 IF: 3.086).
 8. Mingli Lin, **Francesco Caruso**, et al. (2019). Food-mortality risk trade-off in the Indo-Pacific humpback dolphin (*Sousa chinensis*). *Aquatic Conserv: Mar Freshw Ecosyst*, 1–8.doi.org/10.1002/aqc.3280. (2019 IF: 2.935).
 9. Genevieve Flaspohler, **Francesco Caruso** et al. (2019). Locomotion patterns of the veined squid (*Loligo forbesi*) using bio-logging tags. *J Exp Biol*. doi: 10.1242/jeb.198226. (2018/2019 IF: 3.017).
 10. Elena Papale, Giuseppe Alonge, **Francesco Caruso** et al. (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 Conserv: Mar Freshw Ecosyst*. doi: 10.1002/aqc.3158. (2019 IF: 2.935).
 11. **Francesco Caruso**, Virginia Sciacca, et al. (2019). Acoustic recordings of rough-toothed dolphin offshore Eastern Sicily (Mediterranean Sea). *J. Acoust. Soc. Am*, 146, doi: 10.1121/1.5126118. (2018 IF: 1.605).
 12. Lijun Dong, **Francesco Caruso**, et al. (2019). Whistles emitted by Indo-Pacific humpback dolphins (*Sousa chinensis*) in Zhanjiang waters, China. *J. Acoust. Soc. Am*. 145 (6), doi: 10.1121/1.5110304. (2018 IF: 1.605).
 13. Zining Gong, Lijun Dong, Mingli Lin, Mingming Liu, **Francesco Caruso**, et al. (2019) Echolocation signals of free-ranging pantropical spotted dolphins (*Stenella attenuata*) in the South China Sea. *J. Acoust. Soc. Am*. 145 (6), doi: 10.1121/1.5111742. (2018 IF: 1.605).
 14. Ashlee Lillis, **Francesco Caruso**, et al. (2018). Drifting hydrophones as an ecologically meaningful approach to underwater soundscape measurement in coastal benthic habitats. *Journal of Ecoacoustics*. 2: #STBDH1. doi: 10.22261/JEA.STBDH1.
 15. Maria Ceraulo, Elena Papale, **Francesco Caruso** et al. (2018). Acoustic comparison of a patchy Mediterranean shallow water seascape: *Posidonia oceanica* meadow and sandy bottom habitats. *Ecological Indicators*, 85:1030–1043. doi: 10.1016/j.ecolind.2017.08.066. (2017/2018 IF: 3.983).
 16. **Francesco Caruso** et al. (2017). Long-Term Monitoring of Dolphin Biosonar Activity in Deep Pelagic Waters of the Mediterranean Sea. *Scientific Reports*, 7: 4321, doi:10.1038/s41598-017-04608-6. (2017/2018 IF: 4.122).
 17. Salvatore Viola, [...], **Francesco Caruso**, et al. (2017). Continuous monitoring of noise levels in the Gulf of Catania (Ionian Sea). Study of correlation with ship traffic. *Marine Pollution Bulletin*, 121:97–103. doi: 10.1016/j.marpolbul.2017.05.040. (2017 IF: 3.099).
 18. Jacopo Aguzzi, [...], **Francesco Caruso** et al. (2017). Inertial bioluminescence rhythms at the Capo Passero (KM3NeT-Italia) site, Central Mediterranean Sea. *Scientific Reports*, 7:44938, doi: 10.1038/srep44938. (2017/2018 IF: 4.122).
 19. **Francesco Caruso** et al. (2016). Detection and Tracking of Fin Whales During Seismic Exploration in the Gulf of California. *Proceedings of Meetings on Acoustics*, 27, 070021 (2016). doi: 10.1121/2.0000424.
 20. Virginia Sciacca, Salvatore Viola, **Francesco Caruso**, et al. (2016). Shipping Noise and Seismic Airgun Surveys in the Ionian Sea: Long Term Observations and Potential Impact on Mediterranean Fin Whale. *Proceedings of Meetings on Acoustics*, 27, 040010. doi: 10.1121/2.0000311.
 21. Alessandro Bocconcelli [...], **Francesco Caruso**, et al. (2016). DTAG studies of blue whales (*Balaenoptera musculus*) in the Gulf of Corcovado, Chile. *Proceedings of Meetings on Acoustics*, 27, 040002. doi: 10.1121/2.0000269.
 22. Giuseppa Buscaino, [...], **Francesco Caruso**, et al. (2016). Temporal patterns in the soundscape of the shallow waters of a Mediterranean marine protected area. *Scientific Report*, 6, 34230; doi: 10.1038/srep34230. (2015 IF: 5.228).
 23. Silvia Adrián-Martínez, [...], **Francesco Caruso**, et al. for the KM3NeT Collaboration (2016). Long term monitoring of the optical background in the Capo Passero deep-sea site with the NEMO tower prototype. *The European Physical Journal C*, 76:68 doi 10.1140/epjc/s10052-016-3908-0. (2016 IF: 5.084).
 24. C. Distefano, [...], **F. Caruso** et al. for the KM3NeT Collaboration (2016). Measurement of the atmospheric muon flux at 3500 m depth with the NEMO Phase-2 detector. *The European Physical Journal Web of Conferences* 121, 05015, DOI: 10.1051/epjconf/201612105015.
 25. Silvia Adrián-Martínez, [...], **Francesco Caruso**, et al. for the KM3NeT Collaboration (2016). The prototype detection unit of the KM3NeT detector. *The European Physical Journal C*, 76:54. doi: 10.1140/epjc/s10052-015-3868-9. (2016 IF: 5.084).
 26. **Francesco Caruso**, et al. (2015). Size Distribution of Sperm Whales Acoustically Identified During Long Term Deep-Sea Monitoring in the Ionian Sea. *PLoS ONE* 10(12): e0144503. doi: 10.1371/journal.pone.0144503. (2014 IF: 3.234).
 27. Virginia Sciacca, **Francesco Caruso**, et al. (2015). Annual Acoustic Presence of Fin Whale (*Balaenoptera physalus*) Offshore Eastern Sicily, Central Mediterranean Sea. *PLoS ONE* 10(11): e0141838. doi: 10.1371/journal.pone.0141838. (2014 IF: 3.234).
 28. Sebastiano Aiello, [...], **Francesco Caruso** et al. (2015). Measurement of the atmospheric muon depth intensity relation with the NEMO Phase-2 tower. *Astroparticle Physics*, Vol. 66, Pag. 1-7, 2015. doi: 10.1016/j.astropartphys.2014.12.010. (2014 Impact Factor: 4.450).