EUROPEAN CURRICULUM VITAE FORMAT

PERSONAL INFORMATION

Name	**SALVATORE ARONICA**
Address	**OMISSIS**
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E-mail	**Omissis**
Nationality	Italian
Date of Birth	**Omissis**
Gender	male

WORK EXPERIENCE

• Dates (from - to)	September 2011 - today
• Name ad address of the employer	Consiglio Nazionale delle Ricerche - Rome
• Type of business or sector	
• Occupation or position held	**Researcher**
• Main activities and responsibilities	**Researcher in technologies and sensors for the marine and maritime environment**

EDUCATION AND TRAINING

• Dates (from - to)	2005 – 2007
• Name and type of organisation providing education and training	Università degli Studi di Palermo
• Principal subjects/occupational skills covered	Study of evaluation of the energy aspects and environmental impact in the waste-to-energy plants of the R.S.U.
• Title of qualification awarded	**Doctorate in Energetic**
• Dates (from - to)	2003 - 2004
• Name and type of organisation providing education and training	Consiglio Nazionale delle Ricerche – Mazara del Vallo
• Principal subjects/occupational skills covered	Protection of the Marine Environment and Oceanography
• Title of qualification awarded	**Master – High formation**
• Dates (from - to)	1990 - 2001
• Name and type of organisation providing education and training	Università degli Studi di Palermo
• Principal subjects/occupational skills covered	Experimental degree thesis aimed to design and implement a SO.D.A.R system for the acquisition and processing of acoustic signals with the use of DSP
• Title of qualification awarded	**Graduate in Electronic Engineering**

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE	**ITALIAN**
OTHER LANGUAGES	**ENGLISH**

SCIENTIFIC SKILLS AND COMPETENCES

Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.

- Research interests (5 Key words): marine ecology, marine environment, oceanography, ecological modelling.
- Author of more than 50 publications on ISI Scientific Journals.
- Author of 7 National patents.
- Lecturer in different higher education courses (i.e. Environmental pollution, Marine Environment monitoring, ICT platforms on board fishing boats).
- Coordinator of the training project: "Training program aimed at training experts in the sector of traceability and innovation of the fish supply chain - PESCATEC" - PON02_00451_3362121 (CUP: B68J1200025007).

RELEVANT ROLES AND COMPETENCES

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.

- Head of the multidisciplinary research group TESMA, dedicated to the study of Marine technologies and sensors, at the CNR Institute for the Study of Anthropic Impacts and Sustainability in the Marine Environment.
- Coordinator of different research projects as principal investigator or working package leader. The four most important ones in the last 5 years:
  - o 2014-2016: "Sistema informatico dell'Osservatorio della biodiversità della Sicilia" Funding body: Territory and Environment Department of the Sicilian Region. B12I13000080006. Role: Scientific coordinator.
  - o 2018-2021 CALYPSO – SOUTH - Extending Data and Services for Safer Navigation & Marine Protection*", as part of the cooperation program INTERREG V-A Italia-Malta Cod. n. C1-3.2-79, funding by FESR and CN. (CUP: B11I18000290006). Role: Scientific coordinator for CNR.
  - o 2020-2023 "i-Wavenet - Implementazione di un sistema innovativo di monitoraggio dello stato del mare in scenari di cambiamento climatico*", as part of the cooperation program INTERREG V-A Italia-Malta, priority axis III – Ob. Sp. 3.2 - C2-3.2-106, CUP B69C20000070007. Scientific coordinator for CNR.
  - o 2020-2022 CNR-ARPA Scientific Collaboration inside the Project "Impact of marine litter at the micro level on marine habitats and on the general use of the sea resource" Founded by MIPAF. Role: Scientific coordinator for CNR.
- He has participated in various examining commissions both as a member and as president.
- Member of the Steering Committee of Calypso – South Project.
- Member of the Steering Committee of i-Wavenet Project.

PUBLICATION INDEXES (SCOPUS)

- NUMBER OF PUBLICATIONS: 54
- TOTAL NUMBER OF CITATIONS: 652
- H-INDEX: 13

10 MOST RELEVANT PUBLICATIONS
In the last 10 years.

1. Giacalone G., Barra M., Bonanno A., Basilone G., Fontana I., Calabrò M., Genovese S., Ferreri R., Buscaino G., Mazzola S., Noormets N., Nuth C., Lo Bosco G., Rizzo R., Aronica S. A pattern recognition approach to identify biological clusters acquired by acoustic multi-beam in Kongsfjorden. Environmental Modelling & Software, Volume 152, 2022, 105401.
2. Fontana I., Barra M., Bonanno A., Giacalone G., Rizzo R., Mangoni O., Genovese S., Basilone G., Ferreri R., Mazzola S., Lo Bosco G., Aronica S. Automatic classification of acoustically detected krill aggregations: A case study from Southern Ocean, Environmental Modelling & Software, Volume 151, 2022, 105357.
3. Basilone G., Ferreri R., Barra M., Bonanno A., Pulizzi M., Gargano A., Fontana I., Giacalone G., Rumolo P., Mazzola S., Genovese S., McBride R., Aronica S. (2020) Spawning ecology of the European anchovy (*Engraulis encrasicolus*) in the Strait of Sicily: linking variations of zooplankton prey, fish density, growth, and reproduction in an upwelling system. Progress in Oceanography, Volume 184, Article number: 102330, DOI: 10.1016/j.pocean.2020.102330.
4. Awada H., Aronica S., Bonanno A., Basilone G., Zgozi S.W., Giacalone G., Fontana I., Genovese S., Ferreri R., Mazzola S., Spagnolo B., Valenti D., Denaro G. A novel method to simulate the 3D chlorophyll distribution in marine oligotrophic waters. Communications in Nonlinear Science and Numerical Simulation, Volume 103, 2021, 106000, https://doi.org/10.1016/j.cnsns.2021.106000.
5. Cardinale M., Colloca F., Bonanno A., Scarcella G., Arneri E., Jadaud A., Saraux C., Aronica S., Genovese S., Barra M., Basilone G., Angelini S., Falsone F., Gancitano V., Santojanni A., Fiorentino F., Milisenda G., Murenu M., Russo T., Carpi P., Guijarro B., Pérez Gil J. L., González M., Torres P., Giráldez A., García C., Esteban A., García E., Vivas M., Massutí E., Ordines F., Quetglas A., Herrera J. G. The Mediterranean fishery management: A call for shifting the current paradigm from duplication to synergy. Marine Policy, Volume 131, 2021, 104612, https://doi.org/10.1016/j.marpol.2021.104612.
6. Basilone G., Ferreri R., Aronica S., Mazzola S., Bonanno A., Gargano A., Pulizzi M., Fontana I., Giacalone G., Calandrino P., Genovese S., Barra M. Reproduction and Sexual Maturity of European Sardine (*Sardina pilchardus*) in the Central Mediterranean Sea. Frontiers in Marine Science, Volume 8, 2021, DOI: 10.3389/fmars.2021.715846.
7. Aronica S., Fontana I., Giacalone G., Lo Bosco G., Rizzo R., Mazzola S., Basilone G., Ferreri R., Genovese S., Barra M., Bonanno A. Identifying small pelagic Mediterranean fish schools from acoustic and environmental data using optimized artificial neural networks. Ecological Informatics. Vol. 50, pp. 149-161 DOI 10.1016/j.ecoinf.2018.12.007
8. Valenti D., Denaro G., Ferreri R., Genovese S., Aronica S., Mazzola S., Bonanno A., Basilone G., Spagnolo B. Spatio-temporal dynamics of a planktonic system and chlorophyll distribution in a 2D spatial domain: matching model and data. Scientific Reports. Volume 7, Issue 1, Art. N° 220, DOI: 10.1038/s41598-017-00112-z.
9. Zemunik P., Bonanno A., Mazzola S., Giacalone G., Fontana I., Genovese S., Basilone G., Candela J., Šepić J., Vilibić I., Aronica S. Observing meteotsunamis ("Marrobbio") on the southwestern coast of Sicily. *Nat Hazards* **106,** 1337–1363 (2021). https://biblioproxy.cnr.it:2481/10.1007/s11069-020-04303-2
10. Basilone G., Barra M., Ferreri R., Mangano S., Pulizzi M., Giacalone G., Fontana I., Aronica S., Gargano A., Rumolo P., Genovese S., Bonanno A. First annulus formation in the European anchovy; a two-stage approach for robust validation. Scientific Reports, Volume 10, Issue 1, Article number 1079; DOI: 10.1038/s41598-020-58174-5

PATENTS

- 7 National Patents: Pat. N. 0001400127 of 17.05.2013; Pat. N. 0001400128 of 17.05.2013; Pat. N. 0001400129 of 17.05.2013; Pat. N. 0001400130 of 17.05.2013; Pat. N. 0001400131 of 17.05.2013; Pat. N. 0001400132 of 17.05.2013; Pat. N. 0001400133 of 17.05.2013;
- 2 National Software registration: SIAE no 5953 of 2006 and SIAE no 5954 of 2006.

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

Palermo, 25.05.2022   Signature