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Alessandro Lucchetti
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Education

PhD in Biology and Marine Ecology with the thesis: "Selectivity and impact of bottom trawl in the Adriatic Sea" 2009, Faculty of Science, Università Politecnica delle Marche.

Master degree in Mathematical, Physical and Natural Sciences (5 years degree) with a specialisation on Marine Biology and Oceanography. Graduated with full marks (110/110) discussing the final dissertation "Study on feeding of *Sciaena umbra* L. close to an artificial reef in the central Adriatic Sea"

Position and main field of activity

Senior Researcher at CNR-IRBIM (since 2020) with over 20 years of experience.

Main research activity: fishing technology and fishing impact, reduction of bycatch, marine biology, fisheries inspection, fisheries management, evaluation of fisheries resources

Grant capture since 2008 exceeds €7M.

Since 2020 Member of the Working Group on Fisheries and sustainable management of fishing resources, appointed by the Director of CNR-IRBIM.

Since 2018 Member of the Academic board international PhD programme on "Innovative technologies and sustainable use of Mediterranean Sea fishery and biological resources" (FishMed-PhD), Alma Mater Studiorum - University of Bologna.

2004-2019 Responsible for the Training of Italian Fisheries control Inspectors on the control of fishing activities (training carried out also in Albania, Egypt, Lebanon)

2012-2016 Professor for the training course "Fishery biology", Faculty of Science, Università Politecnica delle Marche

2018 Chair of the Working Group on Fishing Technology (WGFiT) of the General Fisheries Commission for the Mediterranean

Scientist coordinator of several international and national research projects.

Expert appointed in several Scientific, Technical and Economic Committee for Fisheries (STECF) and DGFISH Working Groups and many other international and national committees on fisheries.

Supervisor of dozens of undergraduates, PhD students and trainees

Over 60 papers reviewed by ISI journals and more than 100 other scientific contributions (papers, books etc.). Holder of three patents pending.

Selection of managed projects

- Coordinator EU Project DELFI: Dolphin Experience: Lowering Fishing Interactions (LIFE18 NAT/IT/000942), LIFE Nature and Biodiversity, 2020-2024.
- Coordinator EU Project TARTALIFE, Reduction of sea turtle mortality in the professional fishing (LIFE12/NAT/IT/937), LIFE Nature and Biodiversity, 2013-2019.
- Scientific Responsibility Project: "Management measures for bivalve mollusc fisheries in Italy". Reference: Agreement between the Ministry of Agricultural Food and Forestry Policies (MIPAAF) and CNR-IRBIM Ancona, 2019-2021.

	<ul style="list-style-type: none"> ▪ Scientific Responsibility EU Project IMPEMED "Improving the selectivity of trawl gears in the Mediterranean sea to advance the sustainable exploitation pattern of trawl fisheries", Specific Contract NR. 04 EASME/EMFF/2016/032: "Framework Contract for the provision of scientific advice for the Mediterranean and the Black Seas". ▪ Scientific responsible project CATCH-UP FISH, Development of innovative technologies for the sustainable exploitation of biological resources in the Laguna di Lesina. Search Results European Maritime and Fisheries Fund (EMFF) Puglia Programme 2014-2020. 2019-2020. ▪ Scientific Responsible TENDER MARE 2016/16 "Information system on commercial designations for fishery and aquaculture products" – Service Contract n. MARE 2016/16. 2017-2021. ▪ Coordinator project CAMEL: Technical assistance for sustainable management of venus clam (<i>Chamelea gallina</i>). PO FEAMP 2014/2020. N. DELEGA: 2017-400 ISMAR del 14/12/2017. 2017-2021. ▪ Coordinator CNR of the EU project EASME/EMFF/2016/032: "Framework Contract for the provision of scientific advice for the Mediterranean and the Black Seas". Ref. EASME.A3/AK/bd Ares (2017) 3846931 del 01/08/2017. From 2017onwards. ▪ Scientific responsible RITMARE Flagship Project. National Research Programmes funded by the Italian Ministry of University and Research. Assess physical impact on the bottom of fishing activities and mitigate their environmental impact 2013-2019. ▪ Scientific Responsible Task 1.4 (DRESS) Assessment of Venus clam and Razor clam in the GSA 17, 18, 10, 9. Programma Nazionale Raccolta Dati 2017-2019 (Regulations UE 199/20008 and 665/2008 and Decision EU Commission 2016/1251). From 2017 onwards. ▪ Coordinator Project: Purse seines targeting small pelagic species in the Adriatic Sea. Financed by Italian Ministry of Agriculture and Forestry (Fishery and Aquaculture directorate). 1197-29/05/2014. ▪ Scientific Responsible CNR partner and responsible for task 5.2 EU project LANDMED: Implications of the implementation of the landing obligations provisions in small pelagic fisheries in Mediterranean. TENDERS No MARE/2014/11. implementing the Framework Service Contract for "Scientific advice and other services for the implementation of the Common Fisheries Policy in the Mediterranean and Black Sea". 2014-2015. ▪ Scientific Responsible Work Package 3 (Sustainable fishing technologies transfer) EU Project FORCE: Fisheries and aquaculture-Oriented Research Capacity in Egypt. THEME [INCO.2011-6.2]. Grant agreement no: 295004. 2011-2014. ▪ Scientific Responsible EU Project DRIFTMED: Identification and characterization of the small scale driftnets fisheries in Mediterranean. TENDERS No MARE/2013/08 implementing the Framework Service Contract for "Scientific advice and other services for the implementation of the Common Fisheries Policy in the Mediterranean and Black Sea". 2013. ▪ Scientific Responsible project MAREMED: PILOT ACTION Transferable Fishing Concessions (TFC), Maritime Regions Cooperation for Mediterranean. European Regional Development Fund. 2012-2013. ▪ Coordinator EU Project ARCHIMEDES: Estimation of maximum net length of trammel nets, gillnets and combined bottom set nets by using the volume or the mass of the net. Specific contract n. 3 (SI2.603810), implementing the Framework Service Contract for "Scientific Advice and other services for the implementation of the Common Fisheries Policy in the Mediterranean and Black Sea (Contract number MARE/2009/05-Lot I). 2011-2012.
<p>Selected Invited lecturer in advanced and professional courses, masters</p>	<ul style="list-style-type: none"> ▪ 2021 Teacher for the Master in Conservation medicine of aquatic animals – a.a. 2020/21, University of Padua. Title of the lesson: Bycatch: problem, extension and mitigation. ▪ 2022 Teacher for the Master in Conservation medicine of aquatic animals – a.a. 2021/22, University of Padua. Title of the lesson: Bycatch: problem, extension and mitigation. ▪ From 2018 onwards Member of the Academic Board of the PhD school FISHMED-PHD: Innovative Technologies and Sustainable Use of Mediterranean Sea Fishery and Biological Resources. Cycle:34^oSubject area:Biological, Geological and Agricultural Sciences. University of Bologna.

	<ul style="list-style-type: none"> ▪ 2019 Teacher for the University Master in Coastal Aquatic Areas and Management (MARAC) - a.a. 2017-2018 on "Coastal resources management". Appointment of the University of Camerino of 03/19/2019.2006-2017 ▪ 2019 Guest lecturer for fisheries control inspectors (Coast Guard personnel) in a high professional level course. ▪ 2016-2017 Guest lecturer for the master course "Management of coastal areas and resources", University of Camerino (Italy). ▪ 2016-2017 Professor for the training course "Fishery biology", Faculty of Science, Università Politecnica delle Marche. ▪ 2016 Guest lecturer at the Università Politecnica delle Marche for the lecturers: "Management of fisheries resources" and "Impact of fishing activities on the marine environment". ▪ 2015. Guest lecturer for Università degli studi Milano Bicocca for the following lecture: "Sustainable fishing activities". ▪ 2013-2014. Professor for the training course "Fishery biology", Faculty of Science, Università Politecnica delle Marche ▪ 2012-2013. Professor for the training course "Fishery biology", Faculty of Science, Università Politecnica delle Marche. ▪ 2012. Guest lecturer for the Food and Agriculture Organization (FAO) for the: "Training course on fisheries inspection and fish quality control", organized in the framework of the EASTMED-FAO project, Egypt, Lebanon. ▪ 2011. Guest lecturer at the Technical assistance for introduction of stock assessment to the fisheries management system of Turkey (EuropeAid/127296/D/SER/TR), Mersin, Turkey. ▪ 2010. Guest lecturer at the International Advanced Course "Technical advances in fishing gear for sustainable management", organised by the Mediterranean Agronomic Institute of Zaragoza, Spain. ▪ 2009. Professor for the training course "Fishery biology and technology" for the "Hygiene and technology of fishery product", Faculty of Veterinary medicine University of Bologna. ▪ 2008. Lecturer at the Professional Course "Quality systems and certification: an integrated approach for the improvement of fishing products", directed to the Fisheries inspectors of the Albanian Ministry of Fishery, Tirana, Albania.
<p>Recent peer-reviewed publications</p>	<ul style="list-style-type: none"> ▪ Lucchetti A., Virgili M., Vasapollo C., Petetta A., Bargione G., Li Veli D., Brčić J., Sala A. 2021. An overview of bottom trawl selectivity in the Mediterranean Sea. <i>Mediterranean Marine Science</i>, 22(3), 566-585. doi:https://doi.org/10.12681/mms.26969 ▪ Franchini D., Valastro C., Ciccarelli S., Trerotoli P., Paci S., Caprio F., Salvemini P., Lucchetti A., Di Bello A. 2021. Analysis of risk factors associated with gas embolism and evaluation of predictors of mortality in 482 loggerhead sea turtles. <i>Scientific Reports</i>. 11:22693. doi.org/10.1038/s41598-021-02017-4 ▪ Bargione G., Donato F., Barone G., Virgili M., Penna P., Lucchetti A. 2021. Chamelea gallina reproductive biology and Minimum Conservation Reference Size: implications for fishery management in the Adriatic Sea. <i>BMC Zoology</i>, 6: 32 https://doi.org/10.1186/s40850-021-00096-4. ▪ Petetta A., Virgili M., Guicciardi S., Lucchetti A. 2021. Pots as alternative and sustainable fishing gears in the Mediterranean Sea: an overview. <i>Reviews in Fish Biology and Fisheries</i>. https://doi.org/10.1007/s1160-021-09676-6 ▪ Petetta A., Herrmann B., Virgili M., Bargione G., Vasapollo C., Lucchetti A. 2021. Dredge selectivity in a Mediterranean striped venus clam (<i>Chamelea gallina</i>) fishery. <i>Fisheries Research</i>. 238 (2021) 105895. https://doi.org/10.1016/j.fishres.2021.105895 ▪ Bruno C., Caserta V., Salzeri P., Bonanno Ferraro G., Pecoraro F., Lucchetti A., Boitani L., Blasi M.F. 2021. Acoustic deterrent devices as mitigation tool to prevent dolphin-fishery interactions in the Aeolian Archipelago (Southern Tyrrhenian Sea, Italy). <i>Mediterranean Marine Science</i>, 22(2), 408-421. doi:https://doi.org/10.12681/mms.23129

	<ul style="list-style-type: none"> ▪ Bargione G., Petetta A., Vasapollo C., Virgili M., Lucchetti A. 2021. Reburial potential and survivability of the striped venus clam (<i>Chamelea gallina</i>) in hydraulic dredge fisheries. <i>Scientific Reports</i> 11:9109. https://doi.org/10.1038/s41598-021-88542-8 ▪ Blasi M.F., Caserta V., Bruno C., Salzeri P., Di Paola A.I., Lucchetti A. 2021. Behaviour and vocalizations of two sperm whales (<i>Physeter macrocephalus</i>) entangled in illegal driftnets in the Mediterranean Sea. <i>PlosOne</i>, in press ▪ Lucchetti A., Petetta A., Sartor P., Virgili M. 2020. An overview of gill net and trammel net size selectivity in the Mediterranean Sea. <i>Fisheries Research</i> 230 (2020) 105677. https://doi.org/10.1016/j.fishres.2020.105677. ▪ Petetta A., Herrmann B., Virgili M., De Marco R., Canduci G., Li Veli D., Bargione G., Vasapollo C., Lucchetti A. 2020. Estimating selectivity of experimental diamond (TD) and turned mesh (T90) codends in multi-species Mediterranean bottom trawl. <i>Mediterranean Marine Science</i>. https://doi.org/10.12681/mms.22789 ▪ Petetta A., Vasapollo C., Virgili M., Bargione G., Lucchetti A. 2020. Pots vs trammel nets: a catch comparison study in a Mediterranean. <i>PeerJ</i> 8:e9287 DOI 10.7717/peerj.9287. ▪ Vasapollo C., Virgili M., Bargione G., Petetta A., De Marco R., Punzo E., Lucchetti A. 2020. Impact on macro-benthic communities of hydraulic dredging for razor clam <i>Ensis minor</i> in the Tyrrhenian Sea. <i>Frontiers in Marine Science</i>. 7:14. doi: 10.3389/fmars.2020.00014 ▪ Lucchetti A., Bargione G., Petetta A., Vasapollo C., Virgili M. 2019. Reducing Sea Turtle Bycatch in the Mediterranean Mixed Demersal Fisheries. <i>Front. Mar. Sci.</i> 6:387. doi: 10.3389/fmars.2019.00387. ▪ Vasapollo C., Virgili M., Petetta A., Bargione G., Sala A., Lucchetti A. (2019) Bottom trawl catch comparison in the Mediterranean Sea: Flexible Turtle Excluder Device (TED) vs traditional gear. <i>PLoS ONE</i> 14(12): e0216023. https://doi.org/10.1371/journal.pone.0216023 ▪ Lucchetti A., Bargione G., Petetta A., Vasapollo C., Virgili M. 2019. Reducing Sea Turtle Bycatch in the Mediterranean Mixed Demersal Fisheries. <i>Front. Mar. Sci.</i> 6:387. doi: 10.3389/fmars.2019.00387. ▪ Sartor P., Carbonara P., Cerasi S., Lembo G., Facchini M.T., Lucchetti A., Sabatella R.F., Musumeci C., Spedicato M.T. 2019. A selective and low impacting traditional fishery, sustaining the economy of small coastal villages in central Mediterranean: Keep or replace the small-scale driftnets? <i>Fish. Manag. Ecol.</i>: 661-673. DOI: 10.1111/fme.12397. ▪ Bargione G., Donato F., La Mesa M., Mazzoldi C., Riginella E., Vasapollo C., Virgili M., Lucchetti A. 2019. Life-history traits of the spiny dogfish <i>Squalus acanthias</i> in the Adriatic Sea. <i>Scientific Reports</i> volume 9, Article number: 14317. Doi: 10.1038/s41598-019-50883-w
Patents and/or Patent Cooperation Treaty	<ul style="list-style-type: none"> ▪ Grilli R., Lucchetti A., Palumbo V., Sala A., 2007. Light beam trawl with a rigid frame and tickler chains used for demersal fishing. Patent Deposit nr. MC2007U000024. ▪ Sala A., Antolini B., Lucchetti A., Palumbo V., Giuliani G., 2007. Low-cost tool to reduce biofouling in oyster longline culture. Patent Deposit nr. AN2007U000026. ▪ Sala A., Buglioni G., Lucchetti A., Palumbo V., 2009. Instrument for measuring the bending stiffness moment. Patent Deposit nr. AN2009A000051.
Scientific sea trials	More than 100 scientific survey carried out on board research vessels and professional fishing boats.

Ancona, 03/02/2022

Alessandro Lucchetti