Personal and contact information



Name	**Arianna Martini**
Nationality	Italian
E-mail	arianna.martini@crea.gov.it

Personal statement

Arianna Martini completed her PhD in Evolutionary Biology and Ecology and Science: Biology at the University of Rome Tor Vergata (Italy) and Ghent University (Belgium) in March 2020. Since January 2021, she has been working, first as a research fellow and then as a researcher, at the Council for Agricultural Research and Economics (CREA), Research Centre for Animal Production and Aquaculture. Her main activity is the assessment of potential environmental impacts associated with aquaculture production activities and the identification of supply chain hotspots using Life Cycle Assessment models. During 2022, she served as an environmental expert in the EU-funded Agrinatura Value Chain Analysis for Development (VCA4D) project, whose goal was to assess the sustainability of artisanal coastal fisheries in Tanzania and Zanzibar and elaborate recommendations to national and foreign stakeholders (NGOs, EU-delegation in Tanzania, research centres, Ministries, and cooperation and development organizations). A similar assignment was carried out in 2024 to assess the environmental performance of the small pelagic fishery in Mafia Island (Tanzania) and evaluate the environmental benefits of technological improvements along the value chain based on the use of electricity from photovoltaic systems in the framework of the DREEMHub project (WWF-US). In 2025, she served as Guest Editor for Sustainability MDPI (SI: "Environmental performance and ecosystem services of seafood production").

Past and current positions

08.11.2023 – present	**Fixed-term researcher** at the Council for Agricultural Research and Economics (CREA), Research Centre for Animal Production and Aquaculture
15.10.2026 - present	**Member of the committee of researchers and technologists** at the CREA Research Centre for Animal Production and Aquaculture
28.04.2025 - present	Operational **Focal Point** for the European Inland Fisheries and Aquaculture Advisory Commission (EIFAAC, FAO) nominated by the Italian Ministero dell'Agricoltura, della Sovranità Alimentare e delle Foreste, DG PEMAC.
02.08.2024 - present	GFCM SIPAM (Information System for the Promotion of Aquaculture in the Mediterranean) **expert**
06.02.2024-01.07.2024	**Environmental Expert** (DREEM Hub project, WWF-US)
26.02.2024 - present	**Italian member** of the GFCM/FAO TAG (Technical Advisory Group) "Value chain and market access" (appointed by the Head of Unit of PEMAC 1 – MASAF (Italian Ministry of Agriculture, Food Sovereignty and Forests)
20.04.2023 – present	**Member** of the Production working group of NORA (Native Oyster Restoration Alliance)
01.01.2022 – 31.03.2022	**Environmental Expert** for the EU Agrinatura project VCA4D "*Analysis of the Tanzania Coastal Fisheries Value Chain"*
01.04.2022 – 30.10.2023 **10.01.2021 – 31.12.2021**	**Research fellow** at the Council for Agricultural Research and Economics (CREA), Research Centre for Animal Production and Aquaculture

15.07.2020 – 15.10.2020	**Postdoctoral** fellow at the Laboratory of Experimental Ecology and Aquaculture, University of Rome Tor Vergata (Rome, Italy)

Other activities

19.03.2026- present	Participation in the "Paths for Transversal Skills and Orientation" working group (PCTO) – Agreement between "Giuseppe Peano" State Scientific High School and CREA-ZA – Academic Year 2025-2026
15.02.2026 - present	Member of NOWA - Network of Women in Aquaculture
12.11.2025-28.03.2026	Italian reference contact for Ghent University professors (Dr Tom Baelemans and Dr Anamaria Rekecki), providing support in the organisation of the field trip of the Master in Aquaculture, Course of Management of aquatic productions (field trip 23-28 march 2026)
13.01.2025-17.01.2025	Invited participation at a study visit of the Tanzania delegation for Agricultural Statistics held at ISTAT (Italian National Institute of Statistics)
09-01.2025-10.10.2025	Coordinator of service activities of Task 1.1 “Life Cycle Assessment Baseline”, Task 1.2 “Analisi di scenario” e Task 1.3 “Analisi dei servizi ecosistemici” of WP1 “Life Cycle Assessment – Impatti e scenari”, nell’ambito del progetto SoCAM “Sostenibilità Circolare Allevamento Molluschicoltura” (iNEST Spoke 7-NextGeneration EU, grant number B39J24001810004 PNRR_M4C2), coordinated by Ecotapes s.r.l.
17.07.2023-18.07.2023	Invitation from FAO/GFCM to join the Mission at the INRA Shellfish Farming Station at AMSA/Specialized Center in Zootechnics and Marine Aquaculture Engineering in the framework of GFCM consultancy to improve the efficiency of *Ruditapes decussatus* production in Morocco
18.04.2023	Appointment as commission substitute for the PhD defense of the candidate Zachary Dellacqua, Doctoral programme in Sustainable Aquaculture and Marine Ecosystems at the University of Las Palmas de Gran Canaria. Thesis title: Distinguishing the impacts of rearing volume versus the stocking density on the skeletal quality of Sparus aurata during the larval and pre-ongrowing rearing phases

Education

01.11.2026 – 22.11.2026	***Research mobility at CIRAD in Montpellier (France),*** focusing on the project: "Scientific and Methodological Advances in Assessing the Sustainability of Aquaculture Systems: Transitioning from Linear to Circular Analysis Models"
28.09.2026-02.10.2026	***Course “Valutazione Ambientale dei sistemi zootecnici mediante LCA”,*** organised by ASPA (Associazione per la Scienza e le Produzioni Animali – Association for Animal Science and Production) and University of Tuscia (Viterbo, Italy), held in Pieve Tesino (Trento, Italy)
19.01.2026 – 21.01.2026	***Course “Empowering young women for a sustainable aquaculture sector in the Mediterranean and the Black Sea – 4th Edition”*** (GFCM/FAO, FEAP, EIB, NOWA), held in Turkey
12.06.2023 – 12.09.2023	***Course "LCA with Simapro"*** (Simapro UK LTD, London, UK)
05.09.2022 – 12.09.2022	***Course “Empowering young women for a sustainable aquaculture sector in the Mediterranean and the Black Sea, 1st Edition”*** (GFCM/FAO), held in Tunisia
01.11.2016 – 02.03.2020	**Joint-PhD** (University of Rome Tor Vergata (Italy) - Laboratory of Experimental Ecology and Aquaculture, and Gent University (Belgium) - Evolutionary Developmental Biology group). Dissertation title: “Phenotypic plasticity in zebrafish (*Danio rerio*) linked to rearing density”.
06.06.2016 – 31.10.2016	**Internship** at the Laboratory of Experimental Ecology and Aquaculture, supervisor Prof Boglione, in the frame of the project funded by “Torno Subito

2015" - Lazio region, Italy (see Grant section)

01.10.2015 – 31.03.2016 **Internship** at the BIOSKEL Laboratory of CCMAR, University of Algarve (Portugal), in the frame of the project funded by "Torno Subito 2015" - Lazio region, Italy (see Grant section)

28.05.2015 **M.Sc. Degree** in Evolutionary Biology and Ecology, University of Rome Tor Vergata, Italy. Dissertation title (translated in English): "Comparative aspects of skeletal tissues in advanced and basal teleosts". *Magna cum laude*

13.12.2012 **B. Sc. Degree** in Biological Science, University of Rome Tor Vergata, Italy. Dissertation title (translated in English): "Endogenous circadian rhythms of a hypogeal population of the carabid beetle *Laemostenus latialis*"

Awards, grants and research funding

July 2026 • **Award** for a CREA mobility grant for a research period abroad (in November 2026) through a competitive internal selection process, at CIRAD in Montpellier, with the project "Scientific and Methodological Advances in Assessing the Sustainability of Aquaculture Systems: Transitioning from Linear to Circular Analysis Models."

November 2023 • **Researcher position** (25 months) at the Council for Agricultural Research and Economics (CREA), Research Centre for Animal Production and Aquaculture

December 2020 • **Research fellowship** (2 years) at the Council for Agricultural Research and Economics (CREA), Research Centre for Animal Production and Aquaculture

July 2020 • **Postdoctoral fellowship** (3 months) at the Laboratory of Experimental Ecology and Aquaculture, University of Rome Tor Vergata (Rome, Italy)

19.04.2018 • **Poster award**, Interdisciplinary Approaches in Fish Skeletal Biology (IAFSB), Tavira (Portugal)

30.10.2017 • **Research funding** awarded by "Organizing Committee of Biospeleology Congress, April 7-9 2017 Cagliari, Italy" for the research project "The Louisiana crayfish (*Procambarus clarkii*, Girard, 1852) in the Ausi Cave: a case of study of colonization of an alien species in underground habitat" (project proposer: Arianna Martini) - € 700

12.07.2016 • **Three years-grant** awarded by the Doctoral School of Evolutionary Biology and Ecology of the University of Rome Tor Vergata (invitation to tender "Doctorate in Evolutionary Biology and Ecology, XXXI cycle")

24.08.2015 • **Grant** awarded by the Lazio region (Italy) (invitation to tender "Torno Subito 2015") for the project "New molecular and histochemical tools for the analysis of skeletal tissues' disorders in vertebrates" (project proposer: Arianna Martini) - € 10.777,92

Skills

Technical skills:

- Freshwater fish facility management
- Experimental design, sample collection (anaesthesia, euthanasia, physical and chemical samples' fixation – different fixing agents)
- Tissue processing: dissection, embedding (paraffin, epon, GMA), histological sectioning (standard and semi-thin 1µm sections), histological staining, whole-mount staining, *in vivo* staining
- Cortisol and glycogen extractions and quantification
- ELISA and colourimetric assays,
- Critical point drying (CDP)
- Microinjections
- Fatty acids extraction, quantification and identification
- Protein extraction and quantification (Kjeldahl method)

Data analysis:

- Life Cycle Assessment (Simapro, OpenLCA)
- Bright-field and fluorescence imaging
- µCT- and SRXTM-based 3D reconstructions (ImageJ, Avizo),
- Univariate and multivariate statistical analysis (Excel, PAST)
- Behavioural analysis (Boris software)
- Image editing (GIMP, Inkscape)

Publications

- Hornborg, S.; Capoccioni, F.; Irz, X.; Langeland, M.; **Martini**, **A**.; Pulcini, D.; Salenius, F.; Ziegler, F. (2026). Sustainable Integrated Multi-Trophic Aquaculture: Key Considerations for Assessing Environmental and Economic Performance. Reviews in Aquaculture, 18(4), e70192.https://doi.org/10.1111/raq.70192.
- De Iorio, T., Scatà, M. C., **Martini**, A., Martinoli, M., Napolitano, R., Tonachella, N., ... & Capoccioni, F. (2026). Setup of a Simple and Cost-Effective pH-Sensitive Assay to Evaluate Phagocytosis in Rainbow Trout (*Oncorhynchus mykiss*) Peripheral Blood Leukocytes. *Animals*, *16*(12), 1760.
- De Iorio, T., Profico, C., Capoccioni, F., Di Francesco, G., Di Giacinto, F., **Martini**, A., Martinoli, M., Napolitano, R., Tonachella, N., Pulcini, D. (2026). Sampling conditions affect immune cell viability and function in the Mediterranean mussel (*Mytilus galloprovincialis*). *Fish & Shellfish Immunology*, 111247.
- **Martini**, A., De Iorio, T., Ferrarese, L., Landri, P., Martinoli, M., Napolitano, R., Ortu, F., & Pulcini, D. (2026). Mama's Clams: Environmental Performance of an Extended Nursery Phase for Manila Clams—Sand-Nurseries as a Potential Strategy to Address Juvenile Scarcity. *Sustainability*, *18*(5), 2229.
- De Iorio, T., Profico, C., Capoccioni, F., Di Francesco, G., Di Giacinto, F., **Martini**, A., Martinoli, M., Napolitano, R., Tonachella, N. & Pulcini, D. (2026). Sampling conditions affect immune cell viability and function in the Mediterranean mussel (*Mytilus galloprovincialis*). *Fish & Shellfish Immunology*, 111247.
- Vasmara, C., & **Martini, A.** (2025). Transforming Livestock and Aquaculture Waste into Renewable Energy and Materials—A Review. *Sustainability*, *17*(23), 10590.
- Napolitano, R., **Martini, A.***, Martinoli, M., Newton, R. W., Pulcini, D., Tonachella, N., & Capoccioni, F. (2025). Environmental performance of sturgeon caviar production. An LCA study on luxury food. *Aquaculture*, *608*, 742766. https://doi.org/10.1016/j.aquaculture.2025.742766
- De Iorio, T., Scatà, M. C., Grandoni, F., De Matteis, G., **Martini**, A., Tonachella, N., Pulcini, D., & Capoccioni, F. (2025). Effect of Anticoagulants on Blood Cell Counts, Cell Morphology, and Leukocyte Immune Functions of Rainbow Trout (*Oncorhynchus mykiss*). *Cells*, 14(17), 1372.
- Martinoli, M., Contò, M., Tonachella, N., Cardinaletti, G., **Martini**, A., Pulcini, D., Renzi, G., Failla, S., Tibaldi, E., & Capoccioni, F. (2025). Lipid quality and oxidative response in gilthead seabream fillets fed an organic diet including crayfish meal as a source of natural astaxanthin. *Measurement: Food*, 100236.
- De Iorio, T., Scatà, M. C., Apuzzo, F., Gustinelli, A., **Martini, A**., Martinoli, M., Napolitano, R., Pulcini, D., & Capoccioni, F. (2025). An integrated approach to evaluate the immunomodulatory effect of functional feed on rainbow trout (*Oncorhynchus mykiss*) during an *A. salmonicida* outbreak. *Fish Physiology and Biochemistry*, *51*(4), 133.
- Tonachella, N., Contò, M., Martinoli, M., **Martini**, A., Fianchini, A., Fontanesi, L., Gallucci, F., Paris, E., Pulcini, D. & Capoccioni, F. (2025). Fatty Acids and Fatty Acid Trophic Markers in Two Holothurian Species from the Central Mediterranean Sea. *Diversity*, *17*(8), 576.
- **Martini, A** Napolitano R., Capoccioni, F., Martinoli, M., Tonachella, N., Aguiari, L., Piva, P., Rossetti, E., Pulcini, D. (2024). Prefacing the challenge – assessment of the environmental efficiency of

Manila clam (*Ruditapes philippinarum*) production based on hatchery-produced and wild seed. *Aquaculture*, 741474 https://doi.org/10.1016/j.aquaculture.2024.741474

- Veroli, M., Martinoli, M., **Martini**, A., Napolitano, R., Pulcini, D., Tonachella, N., & Capoccioni, F. (2025). A Novel and Automated Approach to Detect Sea-and Land-Based Aquaculture Facilities. *AgriEngineering*, *7*(1), 11.
- Rossi, L., Zoli, M., Capoccioni, F., Pulcini, D., **Martini**, **A**., Bacenetti, J. (2024). Insights into different marine aquaculture infrastructures from a life cycle perspective. *Aquacultural Engineering*, 102462. https://doi.org/10.1016/j.aquaeng.2024.102462
- Onofri, L.; Pulcini, D.; **Martini**, **A**.; Martinoli, M.; Napolitano, R.; Tonachella, N.; Capoccioni, F. Economic Analysis of Sturgeon Farming and Caviar Production: A Case Study of an Italian Fish Farm. *Water* 2024, *16*, 2618. https://doi.org/10.3390/w16182618
- Dellacqua, A., Di Biagio, C., **Martini, A.,** Matteri, F., Rakaj, A., James, C. W., Fabris. A., Izquierdo, M., Boglione, C. (2024). Skeletal anomalies in gilthead seabream (*Sparus aurata*) larvae reared in different densities and water volumes. *Journal of the World Aquaculture Society*, 55:e13056
- **Martini**, A., Sahd, L., Rücklin, M., Huysseune, A., Hall, B. K., Boglione, C., & Witten, P. E. (2023). Deformity or variation? Phenotypic diversity in the zebrafish vertebral column. Journal of Anatomy, 00, 1–22. https://doi.org/10.1111/joa.13926
- Martinoli, M., **Martini, A.**, Pulcini, D., Renzi, G., Tonachella, N., Veroli, M., Capoccioni, F. (2023). Reduced protein intake in *Procambarus clarkii* fed diets containing graded levels of purslane: Effects on growth and quality. Journal of the World Aquaculture Society,1–17. https://doi.org/10.1111/jwas.12942
- Capoccioni, F., Bille, L., Colombo, F., Contiero, L., **Martini**, A., Mattia, C., ... & Pulcini, D. (2023). A Predictive Model for the Bioaccumulation of Okadaic Acid in *Mytilus galloprovincialis* Farmed in the Northern Adriatic Sea: A Tool to Reduce Product Losses and Improve Mussel Farming Sustainability. *Sustainability*, 15(11), 8608.
- Pulcini, D., Pulido-Rodríguez, L. F., de Medeiros, A. C. L., Faccenda, F., **Martini**, A., Martinoli, M., ... & Parisi, G. (2023). Effect of different stunning methods on rigor mortis, shape, energetic status and physical characteristics of *Salmo carpio* fillets. Journal of the Science of Food and Agriculture, 103(4), 2037-2046.
- **Martini, A**., Aguiari, L., Capoccioni, F., Martinoli, M., Napolitano, R., Pirlo, G., Tonachella, N., Pulcini, D. (2023). Is Manila Clam Farming Environmentally Sustainable? A Life Cycle Assessment (LCA) Approach Applied to an Italian *Ruditapes philippinarum* Hatchery. Sustainability, 15, 3237. https://doi.org/10.3390/su15043237
- Secli, V., Di Biagio, C., **Martini**, A., Michetti, E., Pacello, F., Ammendola, S., & Battistoni, A. (2023). Localized infections with P. aeruginosa strains defective in zinc uptake reveal that zebrafish embryos recapitulate nutritional immunity responses of higher eukaryotes. *International Journal of Molecular Sciences*, *24*(2), 944.
- Kumar, N., Biagio, C. D., Dellacqua, Z., Raman, R., **Martini**, A., Boglione, C., Muller, M., Geurts, P., & Marée, R. (2023). Empirical Evaluation of Deep Learning Approaches for Landmark Detection in Fish Bioimages. In: Karlinsky, L., Michaeli, T., Nishino, K. (eds) Computer Vision – ECCV 2022 Workshops. ECCV 2022. Lecture Notes in Computer Science, vol 13804. Springer, Cham. https://doi.org/10.1007/978-3-031-25069-9_31
- Le Gouvello, R., Lamboll, R., **Martini, A.**, Mgawe, Y. (2022). Value Chain Analysis of Coastal Fisheries in Tanzania. Report for the European Union, DG-INTPA. Value Chain Analysis for Development Project (VCA4D CTR 2017/392-416), 211 p + annexes
- Tonachella, N., **Martini, A.**, Martinoli, M., Pulcini, D., Romano, A., & Capoccioni, F. (2022). An affordable and easy-to-use tool for automatic fish length and weight estimation in mariculture. Scientific Reports, 12(1), 1-11.
- **Martini, A.,** Calì, M., Capoccioni, F., Martinoli, M., Pulcini, D., Buttazzoni, L., ... & Pirlo, G. (2022). Environmental performance and shell formation-related carbon flows for mussel farming

systems. *Science of The Total Environment*, *831*, 154891. [8 citations, Google Scholar accessed on 27/03/2023]

- Di Biagio, C., Dellacqua, Z., **Martini, A**., Huysseune, A., Scardi, M., Witten, P., & Boglione, C. (2022). A baseline for skeletal investigations in Medaka (*Oryzias latipes*): The effects of rearing density on the postcranial phenotype. Frontiers in Endocrinology, 13. [2 citations, Google Scholar accessed on 27/03/2023]
- **Martini**, A., Huysseune, A., Witten, P.E. and Boglione, C. (2020). Plasticity of the skeleton and skeletal deformities in zebrafish (*Danio rerio*) linked to rearing density. Journal of Fish Biology, 1–16. [22 citations, Google Scholar accessed on 27/03/2023]
- Leone, C., De Luca, F., Ciccotti, E., **Martini, A.**, and Boglione, C. (2021). Monitoring Skeletal Anomalies in Big-Scale Sand Smelt, *Atherina boyeri*, as a Potential Complementary Tool for Early Detection of Effects of Anthropic Pressure in Coastal Lagoons. Water, 13(2), 159.
- Tancioni, L., Martinoli, M., Olivo, P., Rakaj, A., De Lutiis, F., **Martini, A.,** and Boglione, C. (2019). Brook chub, *Squalius lucumonis* (Pisces, Cyprinidae) conservation aquaculture: First attempt at artificial reproduction and larval rearing. Aquaculture, 499, 178-184 [3 citations, Google Scholar accessed on 27/03/2023]
- Di Russo, C., Chimenti, C., Calcari, C., Druella, D., Rampini, M., Cenni, V., and **Martini**, A. (2017). The allochthonous crayfish *Procambarus clarkii* (Girard, 1852) (Crustacea Cambaridae) from the subterranean stream of the Ausi cave (Latium, Italy): the second documented case of cave invasion. Biodiversity Journal, 8 (4): 951–956 [1] [2 citations, Google Scholar accessed on 12/02/2023]

Conference abstracts (as presenting author)

Martini, A. Progetto SOCAM: Impatti ambientali di un sistema di pre-ingrasso per vongole in sand-nursery. Applicazione della metodologia PEF. **"**Blue economy nel Nord Est tra transizione e trasformazione: le rotte future della filiera ittica", Università Cà Foscari, Venezia, Italy, 11th February 2026. Oral presentation – Invited speaker.

Martini, A., Napolitano, R., Martinoli, M., Newton, R., Pulcini, D., Tonachella, N., Capoccioni, F. (2025). Environmental performance of farmed sturgeon caviar production: an LCA study on luxury food. Aquaculture Europe 2025 - "Aquaculture for Everyone" September 22-25, 2025, Valencia, Spain. Oral presentation

Martini, A., Napolitano, R., Martinoli, M., Newton, R., Pulcini, D., Tonachella, N., Capoccioni, F. (2024). Environmental performance of sturgeon caviar production. Conference "Life Cycle Assessment e Bilanci di Sostenibilità per le imprese del settore agro-alimentare", Milan, 5th December 2024. Oral presentation – Invited speaker

Martini A., Capoccioni F., Pulcini D., Langeland M., Wocken T., Duncan N., Ziegler F. (2024).
Can the transition from mono- to polyculture reduce aquaculture environmental footprint? An LCA approach proposed within the BLUEBOOST project. LCA Food 2024 (08-11 September 2024, Barcellona Spain).
Poster presentation

Martini A., Napolitano R., Capoccioni F., Martinoli M., Tonachella N., Pulcini D. (2024).
Navigating the environmental impacts of Manila clam production chains starting from wild and hatchery-produced seed. LCA Food 2024 (08-11 September 2024, Barcellona Spain). Poster presentation

Martini A. (2024). Il modello Life Cycle Assessment per il miglioramento delle performance ambientali di due delle filiere produttive di eccellenza italiane: la vongola verace e il caviale. AQUAFARM 2024 (14-15 February 2024, Pordenone, Italy). Oral presentation. Invited speaker

Martini, A., Napolitano R., Capoccioni, F., Martinoli, M., Tonachella, N., Pulcini, D. (2023). Mollusk farming and its environmental performance as a potential driver of Blue Growth. SOFAS 2023 (24-26 Ottobre 2023, Trebisonda, Turchia). Oral presentation

Martini, A. (2023). Critical issues in two examples of bivalve mollusc supply chains and possible mitigation actions. AQUAFARM 2023 trade fair (15 - 16 February 2023, Pordenone, Italy) -workshop "Iniziative pilota per una molluschicoltura Carbon Free". Oral presentation – Invited speaker

Martini, A. (2022). LCA and shellfish farming – a case study of organic Manila clam aquaculture. Workshop - Life Cycle Assessment in Aquaculture, Milan, 5th December 2022. Oral presentation – Invited speaker

Martini, **A**. (2022). Life Cycle Assessment della filiera della vongola verace (*Ruditapes philippinarum*) biologica. SIRAM 2022, 11th November 2022. Trieste, Italy, poster presentation.

Martini, A. (2022). Carbon footprint for shellfish. INDUSTRY FORUM. Aquaculture Europe 2022. September 27 - 30, 2022 - Rimini, Italy. Oral presentation – Invited speaker

Martini, A. (2022). The importance of a common methodological approach for the assessment of the carbon sink potential of mollusc farming. Aquaculture Europe 2022. September 27 - 30, 2022 - Rimini, Italy. Oral presentation

Martini, A. (2022). Environmental performance of an Italian clam hatchery – a life cycle assessment approach. Aquaculture Europe 2022. September 27 - 30, 2022 - Rimini, Italy. Poster presentation

Martini, A. (2022). Shellfish farming and carbon sink: the importance of the methodological approach. AQUAFARM 2022 trade fair (24th – 26th May 2022, Pordenone) - workshop "Research at the Centre for Animal Production and Aquaculture (CREA): innovation, technology transfer and support to the Administration". Oral presentation

Martini, A. (2022). Ecosystem services of shellfish farming: when potential carbon sequestration is possible. AQUAFARM 2022 trade fair (24 - 26 May 2022, Pordenone) -workshop "Project Smart Bay Santa Teresa (La Spezia) - The Blue Carbon Sink accounting". Oral presentation – Invited speaker

Martini, A., Pulcini, D., Capoccioni, F., Martinoli, M., Buttazzoni, L., Rossetti, E., Piva, P., Pirlo, G. (2021). Mollusc culture and climate change: the role of carbon sequestration in shells for the environmental impact assessment'. SIRAM 2021, 6th November 2021. Online Conference, oral presentation.

Martini, A., Pulcini, D., Capoccioni, F., Martinoli, M., Buttazzoni, L., Pirlo, G. (2021). Environmental performance of Italian mussel farming - Life Cycle Assessment (LCA) and biogenic carbon computation for three case studies. Aquaculture Europe 2021, Funchal, Madeira (Portugal), 4th-7th October 2021. Oral presentation

Martini, A., Boglione, C., and Witten, P. E. (2019). Phenotypic Variation of the Zebrafish (*Danio rerio*, Actinopterygii: Cyprinidae) Skeleton in Response to Rearing Density. International Congress of Vertebrate Morphology (ICVM12), Prague (Czech Republic), July 21st -25th 2019. Oral presentation. *Published in Journal of Morphology* (vol. 280, pp. s175-s175).

Martini, A. and Boglione, C. Global warming effects on skeletal anomalies in fish. Health and Climate Change. First scientific symposium. Rome (Italy), December 3rd – 5th 2018. Oral Presentation (Boglione, C.)

Martini, A., Calcari, C., Druella, D., Cenni, V., Chimenti, C., Di Russo, C. Allocthonous invasive species in subterranean habitat: the case of the crayfish *Procambarus clarkii* (Crustacea, cambaridae) from the Ausi Cave (Latium, Italy). 79° Congresso dell'Unione Zoologica Italiana - UZI 2018, Lecce (Italy), September, 25th – 28th 2018. Poster presentation

Martini, A., Witten, P.E., Boglione, C. The effect of rearing density on skeletal malformations in zebrafish, *Danio rerio* (Hamilton, 1822). Interdisciplinary Approaches in Fish Skeletal Biology (IAFSB), Tavira (Portugal), April 16th -19th 2018. Poster presentation, ***award-winning poster***

Martini A, Witten P.E., and Boglione C. Carp (*Cyprinus carpio*) as an alternative model to study skeletogenesis in farmed fish species. LARVI '17 – Fish & Shellfish Larviculture Symposium. C.I. Hendry (Ed) European Aquaculture Society, Special Publication No. XX, Oostende, Belgium, 2017. Poster presentation

Workshop, teaching and tutoring activities

9 December 2025	EUSAIR Pillar 1 Technical Workshop "Promoting Sustainable Aquaculture in EUSAIR: Ecosystemic Services, Applied Research, and Ecotourism" (invited) (presentation title: CREA's work for building a sustainable Aquaculture)
21 May 2025	Workshop "Acquacoltura tra innovazione e obiettivi di sostenibilità", ARDAF, Rome (invited)
10 December 2024	Lecturer of a workshop at Tuscia University (Master degree "Marine Biology and Ecology", course "Experimental Aquaculture") "Implementation of a Life Cycle Assessment model for one (or more) farming phases for a trout farming facility"
November-December 2019	**Teaching assistant,** *course of "Zoology", Prof G. Allegrucci and Dr M. Mattoccia, University of Rome Tor Vergata*
October - November 2019	**Lecturer** ("Zebrafish, *Danio rerio* (Hamilton, 1822), as a model organism") in the course "Welfare of laboratory animals and alternative methods to animal testing", held by Istituto Zooprofilattico Sperimentale del Lazio e della Toscana "M. Aleandri" and Centro Interdipartimentale, Medicina Comparata, Tecniche Alternative e Acquacoltura (CIMETA), Università di Roma Tor Vergata
September 2019	**Assistant organizer** in BioMedaqu 2nd Summer School 'Monitoring of Fish Skeletal Anomalies', University of Rome Tor Vergata
November 2017	**Lecturer** ("Zebrafish, *Danio rerio* (Hamilton, 1822), as a model organism") at the course for the access to the use of service facilities for animal experimentation, Interdepartmental Service Center, Animal Technology Station, University of Rome Tor Vergata
2016-2019	**Assistant** during field activities, course of "Biomonitoring Laboratory", Prof Clara Boglione, University of Rome Tor Vergata
	Tutoring activities with bachelor, master and PhD students, Prof Clara Boglione, Laboratory of Experimental Ecology and Aquaculture, University of Rome Tor Vergata

Languages
Italian: native
English: B2-C1