




Markantonatou Vasiliki, PhD

Personal information

-  Department of Marine Sciences, University Hill, 81100 Mytilene, Greece
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Education

- 2016 PhD in “Ecosystem-based management approaches applied to Mediterranean MPAs: a holistic strategy of governance, ecological assessments and systematic conservation planning to inform effective management of marine resources”, Department of Science of Life and Environment (DiSVA), Polytechnic University of Marche, Ancona, Italy
- 2010 Master of Science in “Sustainable management of terrestrial and marine resources”, Department of Biology, University of Crete, Herakleion, Greece
- 2005 Bachelor Degree in Marine Sciences, Department of Marine Sciences, University of the Aegean, Mytilene, Greece

Scientific Experience

- 2018 - Joint actions to increase citizens' accessibility to environmental data bases and monitoring tools to reduce marine litter in the Black Sea Basin, WP: Information review and Information. Funded by the European Neighborhood Instrument (ENI), Black Sea basin Joint Operational Programme 2014-2020. Department of Biology, Aristotle University of Thessaloniki, Greece
- 2018 - Systematic Conservation Planning for biodiversity conservation: Developing integrated strategies on a changing planet. Funded by “Supporting researchers with an emphasis on young researchers” under the Operational Program "Human Resources Development, Education and Lifelong Learning" co-financed by the European Social Fund – ESF. Department of Biology, Aristotle University of Thessaloniki, Greece
- 2018 - Towards the establishment of Marine Protected Area Networks in the Eastern Mediterranean (PROTOMEDEA Project), Task 4.3: Spatial planning in Cyprus. Funded by DG-MARE, Grant Agreement SI2.721917. University of Cyprus, Nicosia, Cyprus
- 2018 Towards the establishment of Marine Protected Area Networks in the Eastern Mediterranean (PROTOMEDEA Project), Task 4.2: Spatial planning in the Aegean. Funded by DG-MARE, Grant Agreement SI2.721917. Department of Marine Sciences, University of the Aegean, Mytilene, Greece
- 2017-2018 Integrated management approaches for the protection of biodiversity taking into account land and sea interactions. Funded by “Supporting researchers with an emphasis on young researchers” under the Operational Program "Human Resources Development, Education and Lifelong Learning" co-financed by the European Social Fund – ESF, State Scholarship Foundation (IKY). Department of Marine Sciences, University of the Aegean, Mytilene, Greece
- 2016-2017 Maritime Spatial Planning for the protection and conservation of the biodiversity in the Aegean sea (MARISCA Project), WP7: Designing a network of Marine Protected Areas - Marine Spatial Planning. Co-funded in 85% by the European Environmental Area Financial Mechanism, (EEA FM 2009-2014), and 15% by the Public Investments Programme (PIP) under the theme «Integrated Marine

- and Inland Water Management», “Increased knowledge concerning the integrated marine and islands policy or the protection / management of coastal areas”. Department of Marine Sciences, University of the Aegean, Mytilene, Greece
- 2012-2015 EU Marie Curie Initial Training Network - Monitoring Mediterranean Marine Protected Areas (ITN- MMMPA), WP 5.2 - ICZM experiences in the MPAs of the net: integration and dissemination. Funded by the European Community's Seventh Framework Programme (FP7/2007-2013) under Grant Agreement no.: 290056. Department of Science of Life and Environment (DiSVA), Polytechnic University of Marche, Ancona, Italy
- 2010-2012 Options for Delivering Ecosystem-based Marine Management (ODEMM), Funded by the European Community's Seventh Framework Programme, Theme ENV.2009.2.2.1.1. Institute of Marine Biological Resources and Inland Waters, Hellenic Centre for Marine Research (HCMR-IMBRIW), Crete, Greece
- 2010 Hellenic Network for Biodiversity Research: Construction and Implementation phase for the LifeWatch Centre. Funded by the General Secretariat of Research and Technology / NSRF 2007-2013. Institute of Marine Biology, Biotechnology and Aquaculture, Hellenic Centre for Marine Research (HCMR-IMBBC), Crete, Greece

Teaching Experience

- 2019 Invited Lecturer
Seminars of Master students in systematic Conservation Planning (Marxan software)
Department of Biology, Aristotle University of Thessaloniki, Greece
- 2013-2015 Co-Supervisor
Master student, Marija Lazic
University of Azores, ES
- 2008-2009 Technical assistant: Marine Biologist
Educational seminars and excursions in schools,
Crete-Aquarium 'Thalassokosmos', Hellenic Center for Marine Research (HCMR), Heraklion, Crete, GR
- 2004-2005 Technical assistant
Marine Microbiology laboratory Undergraduate program
Department of Marine Sciences, University of the Aegean, Mytilene, Lesvos, GR
www.mar.aegean.gr
- 2004-2005 Technical assistant
Biology laboratory Undergraduate program
Department of Marine Sciences, University of the Aegean, Mytilene, Lesvos, GR
www.mar.aegean.gr

Fellowships and Grants

- 2019 Short-Term Scientific Mission (STSM) of Advancing marine conservation in the European and contiguous seas (MarCons) COST Action CA15121. Department of Marine Sciences, University of the Aegean & Centre de Ciència i Tecnologia Forestal de Catalunya, 10-17 March, Solsona, ES
- 2018- 2019 PostDoc Fellowship “Supporting researchers with an emphasis on young researchers” under the Operational Program "Human Resources Development, Education and Lifelong Learning" co-financed by the European Social Fund – ESF. Department of Biology, Aristotle University of Thessaloniki, GR
- 2017-2018 PostDoc Fellowship “Strengthening PostDoc and PhD Research” under the Operational Program "Human Resources Development, Education and Lifelong Learning" co-financed by the European Social Fund - ESF and the Greek State. Department of Marine Sciences, University of the Aegean, GR

- 2012-2015 Marie Curie PhD Fellowship - Early Stage Researcher, EU Marie Curie - ITN Monitoring of Mediterranean Marine Protected Areas (MMMMPA) project, Università Politecnica delle Marche, Ancona, IT
- 2008 Marine Biodiversity and Ecosystem Functioning EU Network of Excellence (MarBEF course). Observatoire Oceanologique Laboratoire Arago, University Pierre et Marie Curie, 29 June- 18 July, Cerbere-Banyuls, FR (ECTS credits 9)
- 2009 Marine Biodiversity and Ecosystem Functioning EU Network of Excellence (MarBEF course). Marine Paris VI Pierre et Marie Curie, Station Biologique de Roscoff, 30 April- 12 May, Roscoff, FR.(ECTS credits 6)

Publications in Scientific Journals

- Petza D, Chalkias C, Koukouroufli N, Coll M, Vassilopoulou V, Karachle P, **Markantonatou V**, Tsikliras A, Katsanevakis S., 2019. An operational framework to assess the value of fisheries restricted areas for marine conservation. *Marine Policy* (in press)
- Giakoumi S, Hermoso V, Carvalho SB, **Markantonatou V**, Dagys M, Iwamura T, Probst WN, Smith RJ, Yates KL, Almpnidou V, Novak T, Ben-Moshe N Katsanevakis S, Claudet J, Coll M, Deidun A et al., 2018. Conserving European biodiversity across realms. *Conservation Letters*, e12586. doi:10.1111/conl.12586
- Sini M, Katsanevakis S, Koukouroufli N, Gerovasileiou V, Dailianis T, Buhl-Mortensen L, Damalas D, Dendrinou P, Dimas X, Frantzis A, Gerakaris V, Giakoumi S, Gonzalez-Mirelis G, Hasiotis T, Issaris Y, Kavadas SG, Koutsogiannopoulos DD, Koutsoubas D, Manoutsoglou E, **Markantonatou V**, Mazaris AD, et al., 2017. Assembling Ecological Pieces to Reconstruct the Conservation Puzzle of the Aegean Sea. *Front Mar Sci*, 4:347
- Prato G, Barrier, Francour, Cappanera V, **Markantonatou V**, Guidetti P, Mangialajo L, Cattaneo-Vietti R, Gascuel D, 2017. Assessing impacts and conflicts of artisanal and recreational fisheries in Marine Protected Areas: a trophic prioritization approach. *Ecosphere* 7(12): e01601
- Lucrezi S, Milanese M, **Markantonatou V**, Cerrano C, Sarà A, Palma M, Saayman M, 2017. Scuba diving tourism systems and sustainability: perceptions by the scuba diving industry in two MPAs. *Journal of Tourism Management*, 59:385-403
- Hogg K, **Markantonatou V**, Noguera-Méndez P, Semitiel-García M, 2016. Incentives for good governance: getting the balance right for Port Cros National Park (Mediterranean Sea, France). *Scientific Reports Port-Cros National Park*, 30: 165-178
- Markantonatou V**, Noguera P, Semitiel-Garcia M, Hogg, K, Sano M, 2016. Social networks and information flow: building the ground for collaborative marine conservation planning in Portofino Marine Protected Area (MPA). *Journal of Ocean and Coastal Management*, 120: 29-38
- Faulwetter S, Papageorgiou N, Koulouri Y, Fanini L, Chatzinikolaou E, **Markantonatou V**, Pavloudi C, Chatzigeorgiou G, Keklikoglou K, Vassileiadou K, Basset A, et al., 2015. Resistance of polychaete species and trait patterns to simulated species loss in coastal lagoons. *Journal of Sea Research*, 98, 73–82, doi: 10.1016/j.seares.2014.09.003
- Markantonatou V**, Marconi M, Cappanera V, Campodonico P, Bavestrello A, Cattaneo-Vietti R, Papadopoulou N, Smith C, Cerrano C, 2014. Spatial allocation of fishing activity on coralligenous habitats in Portofino MPA (Liguria, Italy), in: Bouafif, C., Langar, H., Ouerghi, A. (Eds.). Presented at the UNEP/MAP- RAC/SPA, Proceedings of the second Mediterranean Symposium on the conservation of Coralligenous and other Calcareous Bio-Concretions. 29-30 October 2014, Portorož, SI, pp. 118–123
- Faulwetter S, **Markantonatou V**, Pavloudi C, Papageorgiou N, Keklikoglou K, et al., 2014. Polytraits: A database on biological traits of marine polychaetes. *Biodiversity Data Journal* 2: e1024. doi: 10.3897/BDJ.2.e1024
- Markantonatou V**, Meidinger M, Sano M, Palma M, Ponti M, Cerrano C, 2013. Stakeholder participation and the use of web technology for marine conservation. *Advances in Oceanography and Limnology*, 4:2, 260-276, doi: 10.1080/19475721.2013.851117
- Meidinger M, **Markantonatou V**, Sano M, Palma M, Ponti M, 2013. Seafloor mapping and cartography for the management of Marine Protected Areas. *Advances in Oceanography and Limnology*. 4(2):120-137, doi: 10.1080/19475721.2013.848529

- Markantonatou V**, Sano M, Cerrano C, 2013. Stakeholders, Technology and MPAs: Towards Integrated Management? Proceedings of the Global Congress on ICM (EMECS 10 – MEDCOAST 2013): Lessons Learned to Address New Challenges, 30 October – 03 November 2013, Marmaris, Turkey: 293-304
- Koulouri P, **Markantonatou V**, Martin C, Alexandrakis G, Poulos S, Dounas C, Henoque Y, 2013. An ICZM strategy for the sustainable development of a former U.S. Base in Greece under “fast track” conditions. Proceedings of the Global Congress on ICM (EMECS 10 - MEDCOAST 2013): Lessons Learned to Address New Challenges, 30 October - 03 November 2013, Marmaris, Turkey: 403-414
- Breen P, Robinson LA, Rogers SI, Knights AM, Piet G, Churilova T, Margonski P, Papadopoulou N, Akoglu E, Eriksson A, Finenko Z, Fleming-Lehtinen V, Galil B, Goodsir F, Goren M, Kremena S, Krivenko O, Leppanen JM, **Markantonatou V**, et al., 2012. Assessing risk to achieving environmental objectives: A European assessment to support regional prioritization of management options to achieve Good Environmental Status. *Marine Policy*, 36(5):1033–1043, doi:10.1016/j.marpol.2012.02.003

Other Scientific Publications

- Markantonatou V**, Katsanevakis S, Koukouroufli N, Trygonis V, 2017. Initial MPA network in the Aegean Sea. Towards the establishment of Marine Protected Area Networks in the Eastern Mediterranean, Protomedea Project (D4.2a). University of the Aegean, Department of Marine Sciences, Mytilene, Greece. 135pp.
- Markantonatou V**, Chartosia N, Michailidis N, Petrou A, 2017. Initial MPA network in Cyprus. Towards the establishment of Marine Protected Area Networks in the Eastern Mediterranean, Protomedea Project (D4.3a). University of Cyprus, Nicosia, Cyprus. 106pp.
- Markantonatou V**, Giakoumi S, Koukouroufli N, Sini M, Buhl Mortensen L, Gonzalez-Mirelis G, Katsanevakis S, 2017. Designing a neytwork of Marine Protected Areas (MPAs) – Marine Spatial Plan (WP-7). MARISCA Project (Deliverable 7.1). University of the Aegean, Department of Marine Sciences, Mytilene, Greece. 48pp.
- Markantonatou V**, Marconi M, Cerrano C, 2016. Guidelines for monitoring pressure and impacts from small scale and recreational fishing activity in Mediterranean Marine Protected Areas. Pp 26-37. In: MMMPA Supervisory Board (Eds) Monitoring Mediterranean Marine Protected Areas: A set of guidelines to support the development of management plans. Deliverable of the MMMPA European project (FP7-PEOPLE-2011-ITN g.a. no.: 290056). Ancona, 116p.
- Markantonatou V**, Noguera-Méndez P, Semitiel-García M, Hogg, K, Sano M, 2016. Guidelines for increasing information flow and stakeholder engagement in Marine Protected Areas. Pp 98-107. In: MMMPA Supervisory Board (Eds) Monitoring Mediterranean Marine Protected Areas: A set of guidelines to support the development of management plans. Deliverable of the MMMPA European project (FP7-PEOPLE-2011-ITN g.a. no.: 290056). Ancona, 116 p.
- Markantonatou V**, 2016. Ecosystem-based management approaches applied to Mediterranean Marine Protected Areas (MPAs): a holistic strategy of governance, ecological assessments and conservation planning in order to inform sound management of marine resources. PhD Thesis. 180pp + App. 76pp.
- Markantonatou V**, Giakoumi S, Mazor T, Gianni F, Zapat-Ramirez P, Marconi M, Cerrano C, 2015. Re-zoning Portofino Marine Protected Area to assist decision-making to achieve better conservation outcomes: preliminary results, Deliverable 5.2.4 ITN MMMPA, 24pp.
- Markantonatou V**, 2015. MPA management evaluation in Mediterranean Marine Protected Areas (MPAs). Report on assessment of MPA management effectiveness in the Mediterranean. Deliverable 5.2.3 ITN MMMPA Project, 52pp.
- Lucrezi S, Milanese M, **Markantonatou V**, Sarà A, Previati, M, Ferraris D, 2015. Questionnaire survey and focus groups with diving charters of the Portofino MPA. Report WP1, ITN- Green Bubbles Project. 25pp.
- Papadopoulou N, Smith C, Gristina M, Belluscio A, Frascchetti S, Santelli A, Pace ML, **Markantonatou V**, Nikolopoulou M, Valavanis V, Giannoulaki M, Palikara E, Martin C, Scardi M, Telesco L, Fabi G, Barro J, Grati F, Scarcella G, Punzo E, Knittweis L, Guarnieri G, D’Anna G,

- Pipitone C, Spedicato MT, 2013. Reviewing and mapping of all types of existing marine protected areas in different GSAs in the Mediterranean basin. Mediterranean Sensitive Habitats (MEDISEH) Final Report, DG MARE Specific Contract SI2.600741
- Markantonatou V**, Papadopoulou KN, Smith C, 2012. Preparation and release of a Mediterranean GIS dataset of Marine Protected Areas (MPAs) and Fisheries Restricted Areas (FRAs). Mediseh Project Deliverable Report D1.4.3: Database with GIS Information on Existing Marine Protected Areas (PART), HCMR, Crete, GR
- Smith C, Frascchetti S, Belluscio A, Gristina M, Fabi G, Santelli A, Grati F, Papadopoulou N, **Markantonatou V**, Palikara E, Knittweis L, Guarnieri G, Pace ML, Scarcella G, Spedicato MT, Martin C, D'Anna G, Balametti F, Baro J, 2012. Mediseh Project Deliverable Report D1.4.1: Database with GIS Information on Existing Marine Protected Areas (PART), HCMR, Crete, GR
- Papadopoulou KN, **Markantonatou V**, Smith C, 2011. The Mediterranean Sea: Additional information on status of threatened ecological characteristics relevant to the Marine Strategy Framework Directive. September 2011. 30pp. <https://vocal-external.liv.ac.uk/sites/odemmm/default.aspx>
- Smith C, Papadopoulou KN, **Markantonatou V**, 2010. Meece Project. Deliverable D1.4. PART: New Model Parameterizations: OSMOSE (PART), HCMR, Crete, GR
- Smith C, Papadopoulou KN, **Markantonatou V**, 2010. Meece Project. Deliverable D1.5. PART: Fishing Scenario Parameterizations (PART), HCMR, Crete, GR

Selected Conference Proceedings

- Almpanidou V, **Markantonatou V**, Mazaris A, 2018. Vulnerability assessment of marine turtles during migration, under the effect of climate change in the Mediterranean region. 4-7 October 2018, Irakleio, Crete, GR
- Stithou M, Vassilopoulou V, **Markantonatou V**, Kavadas S, Gadolou E, 2018. Identifying cultural significant areas and exploring socio-cultural evidence needs for MSP: the case of traditional small-scale fisheries in the Aegean Sea. International Conference, Society and the sea: INVESTINBLUE-The values of the ocean and coasts for sustainable development, 6 – 7 September 2018, University of Greenwich, London, UK
- Markantonatou V**, Koukourouvli N, Dimarchopoulou D, Giannoulaki M, Karachle PK, et al., 2018. Systematic Conservation Planning: Protecting biodiversity and fisheries resources in the Aegean Sea. 12th Panhellenic Symposium of Oceanography & Fisheries , Blue Growth for the Adriatic-Ionian Macroregion and the Eastern Mediterranean, Ionian University, 30 May – 3 June 2018, Corfu, GR
- Markantonatou V**, Chartosia N, Petrou A, Jimenez C, Karachle PK, et al., 2018. Systematic Conservation Planning: Protecting biodiversity and fisheries resources in Cyprus. 12th Panhellenic Symposium of Oceanography & Fisheries , Blue Growth for the Adriatic-Ionian Macroregion and the Eastern Mediterranean, Ionian University, 30 May – 3 June 2018, Corfu, GR
- Markantonatou V**, Cerrano C, 2015. Monitoring MPA management effectiveness in Mediterranean Marine Protected Areas. MMMPA final Conference – CIESM 'Mediterranean Marine Protected Areas: Integrated Management as a Response to Ecosystem Threats', 15-17 October 2015, Ancona, IT
- Markantonatou V**, Noguera-Méndez P, Semitiel-García M, Hogg K, Sano M, 2015. Guidelines for increasing information flow and stakeholder engagement in Marine Protected Areas. MMMPA final Conference – CIESM 'Mediterranean Marine Protected Areas: Integrated Management as a Response to Ecosystem Threats', 15-17 October 2015, Ancona, IT
- Markantonatou V**, Cerrano C, 2015. Risk assessment of fishing footprint on coralligenous habitats. MMMPA final Conference – CIESM 'Mediterranean Marine Protected Areas: Integrated Management as a Response to Ecosystem Threats', 15-17 October 2015, Ancona, IT
- Markantonatou V**, Milanese M, Cerrano C, 2015. MMMPA social network and collaboration. MMMPA final Conference – CIESM 'Mediterranean Marine Protected Areas: Integrated Management as a Response to Ecosystem Threats', 15-17 October 2015, Ancona, IT
- Lazic M, **Markantonatou V**, 2015. Setting of the governance for management of transboundary

- Fisheries Restricted Area. Identification of the key elements of the Central Adriatic Sea. MMMPA final Conference – CIESM ‘Mediterranean Marine Protected Areas: Integrated Management as a Response to Ecosystem Threats’, 15-17 October 2015, Ancona, IT
- Prato G, Barrier C, Cottalorda JM, **Markantonatou V**, Cappanera V, Francour P, Gascuel D, 2015. Food web modeling: a possible ecosystem management tool for Mediterranean MPAs? Les écosystèmes dans tous leurs états, Association Française Halieutique, 1-3 July, Montpellier, FR
- Markantonatou V**, Marconi M, Cappanera V, Cambodonico P, Bavetsrello A, et al., 2014. Spatial allocation of fishing activity on coralligenous habitats in Portofino MPA (Liguria, Italy). 2nd Mediterranean Symposium on the conservation of Coralligenous and other Calcareous Bio-Concretions, UNEP-MAP- RAC/SPA, 29-30 October 2014, Portorož, SL
- Zapata-Ramirez PA, Huete-Stauffer C, **Markantonatou V**, Riccioni G, Marconi M, Cerrano C, 2014. Multiscale modelling of Portofino’s MPA commercial fish population. Towards a new ecosystem-based management approach. 49th European Marine Biology Symposium, Zoological Institute, Russian Academy of Sciences, 8–12 September 2014, St. Petersburg, RU
- Markantonatou V**, Noguera Méndez P, Semitiel Garcia M, Hogg K, Sanò M, Cerrano C, 2014. Social networks and web technology for collaborative marine conservation planning. 3rd International Marine Conservation Congress (IMCC3), 14-18 August 2014, Glasgow, UK
- Papadopoulou K-N, Smith C, Giannoulaki M, Gristina M, Belluscio A, Criscoli A, Frascchetti S, Santelli A, Pace ML, **Markantonatou V**, et al., 2014. Fishery Restricted Areas and Marine Protected Areas– is trawling a major pressure and how much of the Mediterranean is protected? ICES Effects of fishing on benthic fauna and habitats Symposium, Theme Session: Change in the extent of habitats impacted by bottom trawling; how big is the problem? 16 -19 June 2014, Tromsø, NO
- Markantonatou V**, Ramirez- Zapata P, Huete Stauffer C, Marconi M, Papadopoulou N and Cerrano C, 2013. A DPSIR framework to evaluate the effect of fisheries on coralligenous in Mediterranean MPAs. In Proceedings of the International Marine Protected Areas Congress (IMPAC3), 21-27 October 2013, Marseille & Corsica, FR
- Markantonatou V**, Sano M, Cerrano C, 2013. Stakeholders, Technology and MPAs: Towards Integrated Management? Global Congress on ICM (EMECS 10 -MEDCOAST 2013): Lessons Learned to Address New Challenges, 29 October- 2 November 2013, Marmaris, TR
- Zapata-Ramírez PA, Landi G, Palma M, Ferraris D, Ponti M, Pantaleo U, Meidinger M, **Markantonatou V**, et al., 2013. The visualization of geographical datasets on mobile devices using Augmented Reality Application based: A case of study from Ligurian Region. In Proceedings of the Twelfth International Symposium - GEOHAB 2013, 6-10 May 2013, Rome, IT

Skills

Languages: English (proficient user), Italian (advanced user), Spanish (basic user)

Data collection: Questionnaires and interviews for collection of socio-economic, spatial ecological and socio-economic data, ecological information through remotely operated underwater vehicle (ROV), mapping of marine habitats, taxonomy of marine benthic organisms, measurement of environmental parameters

Computer software: R (statistical analysis and modeling), Geographic information Systems (GIS) and spatial analysis tools (ArcGIS, QGIS, GRASS), Spatial prioritization Decision Support Tools (Marxan, Marxan with Connectivity, Marxan with Zones), Social Network Analysis software and graphic design (Pajek, Gephi, UCINET), Data processing and statistical analysis (Statistica, SPSS, Primer), Conceptual modeling (Bow Tie)

Dissemination and communication: Brochures, Campaigns, Organisation of stakeholder and scientific workshops, Videos targeting marine conservation and public awareness