






PERSONAL INFORMATION

Aristides Prospathopoulos

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Sex Male | Date of birth 01/04/1969 | Nationality Greek

POSITION

Associate Researcher, Hellenic Centre for Marine Research

WORK EXPERIENCE

2001 - today

Research Scientist (Associate Researcher from 30/12/2016)

Institute of Oceanography, Hellenic Centre for Marine Research (HCMR), Greece (www.hcmr.gr)

- Main responsibilities: HCMR responsible for the Descriptor 11 of Good Environmental Status (GES) related to Marine Strategy Framework Directive (MSFD); national representative in the EU Technical Group for underwater noise (TG Noise); HCMR leader in the EU project QUIETMED2 and subtask leader in the EU project MEDCIS dealing with assessment of underwater noise; steering committee member of InterregMed project PELAGOS (see Annex 2); member of the Marine Environmental Radioactivity Laboratory of HCMR.
- Main activities: policy guidelines for underwater noise; mathematical modelling for three dimensional acoustic propagation and scattering in ocean waveguides; involvement with Blue Energy (Marine Renewable Energy) issues; software development for automated qualitative and quantitative analysis of radioactivity spectra in the marine environment; implementation of numerical models for wave propagation in open sea and coastal areas and for sediment transport in coastal zone; statistical analysis of wave data.

1999 - 2001

Research Associate

Institute of Oceanography, HCMR, Greece

- Comparison of numerical wave models in the context of POSEIDON System (Monitoring, Forecasting and Information System for the Greek Seas); statistical analysis of wave data from the POSEIDON System.

1990 - 1998

Research Associate

Dept. Naval Architecture and Marine Eng., National Technical University of Athens (NTUA), Greece (www.ntua.gr)

- Mathematical modeling of acoustic field in ocean waveguides; software development for problems of three-dimensional acoustic wave propagation and scattering in the ocean environment.

EDUCATION AND TRAINING

1993 - 2000

PhD Diploma in Underwater Acoustics

School of Naval Architecture and Marine Engineering, NTUA, Athens, Greece

- Principal subject:: Analytical and numerical modeling of acoustic wave propagation and scattering in ocean waveguides; Skills acquired: team work, computer programming

1986 - 1993

Diploma in Mechanical Engineering

School of Mechanical Engineering, NTUA, Athens, Greece

- Principal subject:: Fluid mechanics, especially study of acoustic field around a vertical cylinder in an infinite strip of acoustic medium

7 - 19 June 1993

Participation certificate in “Advanced Course on Acoustical Oceanography”

Funded Summer School from Institute of Applied & Computational Mathematics (IACM) / Foundation of Research & Technology – Hellas (FORTH), Heraklion, Crete.

9 Nov. - 21 Dec. 1991

Participation certificate in “Sea Technology”

Funded Training Programme from IACM/FORTH, Heraklion, Crete, Greece

PERSONAL SKILLS

Mother tongue(s) Greek

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Proficiency of P.E.G. English School London					
Italian	A1	A1			
German	A1	A1			

Communication skills Good communication skills gained through team work during preparation of a large number of project proposals, through participation in project meetings, workshops and conferences and through training of students.

Organisational / managerial skills Significant experience in organisational and management activities gained through the following: member of the HCMR Executive Organization Committee in the 3rd EuroGoos International Conference, 3-6 December 2002, Athens, Greece; member of the Organization Committee in the 1st ESF MedCLIVAR Summer School, 17-27 September 2008, Rhodes, Greece; member of the Organization Committee in the 3rd ESF MedCLIVAR Workshop, 29 September – 1 October 2008, Rhodes, Greece; Greek leader in a Greek-Polish R&T bilateral cooperation; coordinator for collection of HCMR administrative and scientific information in the frame of large national research projects; responsible for communicating Institute of Oceanography's and HCMR's proposals in the RIS3 framework to Greek Regions; management activities for project proposals and on-going projects of the Marine Environmental Radioactivity Laboratory of HCMR; leader for HCMR underwater noise team; HCMR leader in EU projects

Computer skills Very good command of Windows operational system and familiar with UNIX. Experience on standard software packages (Microsoft Office, Grapher, Surfer, Mathematica, Statistica) and programming languages (MATLAB, Fortran); very good use of specialised software packages dealing with numerical modeling of coastal processes, such as MIKE 21 BW (simulation of wave propagation in shallow water solving a Boussinesq-type equation) and LITPACK (simulation of cross-shore and long-shore sediment transport), developed by Danish Hydraulic Institute.

Other skills Member of the Technical Chamber of Greece; Member of the Hellenic Institute of Acoustics.

Driving licence Yes; Category: B

ADDITIONAL INFORMATION

Publications More than 25 peer-reviewed publications in international journals and conferences; more than 200 citations (Scopus); see Annex 1 for selected publications.

Projects Participated in more than 25 international and national projects; scientific responsible in 3; see Annex 2 for selected projects.

Editor/ Reviewer Editor: Oceanography and Fisheries Open Access Journal / Reviewer: 26th International Offshore (Ocean) and Polar Engineering Conference (ISOPE-2016)", Rhodes, Greece, 26 June – 1 July 2016; The Open Ocean Engineering Journal (May 2011); 21th International Offshore (Ocean) and Polar Engineering Conference (ISOPE-2011)", Maui, USA, 19-24 June 2011; 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE2008)", Estoril, Portugal, 15-20 June 2008.

Scholarships 1987-1988: Hellenic State Scholarships Foundation (as a graduate student)

1989-1990: Hellenic State Scholarships Foundation (as a graduate student)
 1991-1993: Institute of Applied and Computational Mathematics (IACM) – Foundation of Research and Technology, Hellas (FORTH)
 1994-1998: Hellenic State Scholarships Foundation (as a PhD candidate in Underwater Acoustics)

Education & Training

- 2004: Training of a graduate student in HCMR on the use of numerical model MIKE 21 BW (solution of Boussinesq equation for shallow water).
- 2002–2003: Training of the three post-graduate students in HCMR on the use of numerical modeling system LITPACK (sediment transport models for littoral processes), and co-supervision of their Master Thesis.
- Invited lecturer in the post-graduate program of the Dept. of Marine Science in the Aegean University with subject: “Introduction to littoral processes”, 25 January 2002, Mytilini, Greece.
- Co-lecturer in the class “Wave phenomena in ocean environment” during 1994-1995, School of Naval Architecture and Marine Engineering, NTUA.

ANNEXES

ANNEX 1: List of selected publications

- Frantzis, A., Leaper, R., Alexiadou, P., **Prospathopoulos, A.**, Lekkas, D., 2019. Shipping routes through core habitat of endangered sperm whales along the Hellenic Trench, Greece: Can we reduce collision risks? PLoS ONE 14(2): e0212016.
- Soukissian, T.H., Adamopoulos, C., **Prospathopoulos, A.**, Karathanasi, F., Stergiopoulou, L., 2019. Marine Renewable Energy Clustering in the Mediterranean Sea: The Case of PELAGOS Project. Front. Energy Res. 7:16.
- Tsabaris, C., Androulakaki, E.G., **Prospathopoulos, A.**, Alexakis, S., Eleftheriou, G., Patiris, D.L., Pappa, F.K., Sarantakos, K., Kokkoris, M., Vlastou, R., 2019. Development and optimization of an underwater in-situ cerium bromide spectrometer for radioactivity measurements in the aquatic environment. Journal of Environmental Radioactivity 204, 12–20.
- Patiris, D.L., Tsabaris, C., Schmidt, M., Karageorgis, A.P., **Prospathopoulos, A.M.**, Alexakis, S., Linke, P., 2018. Mobile underwater in situ gamma-ray spectroscopy to localize groundwater emanation from pockmarks in the Eckernförde bay, Germany. Applied Radiation and Isotopes, Vol 140, pp 305-313.
- Pensieri, S., Patiris, D., Alexakis, S., Anagnostou, M.N., **Prospathopoulos, A.**, Tsabaris, C., Bozzano, R., 2018. Integration of Underwater Radioactivity and Acoustic Sensors into an Open Sea Near Real-Time Multi-Parametric Observation System Ecosystems. Sensors, 18 (8), 2737.
- Soukissian, T.H., Denaxa, D., Karathanasi, F., **Prospathopoulos, A.**, Sarantakos, K., Iona, A., Georgantas, K., Mavrakos S., 2017. Marine Renewable Energy in the Mediterranean Sea: Status and Perspectives, Energies, 10, 1512.
- **Prospathopoulos, A.**, 2016 (Editorial), “Anthropogenic Noise in the Marine Environment: Pressures, Trends and Efforts to Prevent the Irreversible”, Oceanography & Fisheries Open Access Journal 1 (2), 1-3.
- Crise, A., Kaberi, H., Ruiz, J., ..., Panayotova, M., **Prospathopoulos, A.**, Radu, G., ..., Papathanassiou E., 2015. A MSFD complementary approach for the assessment of pressures, knowledge and data gaps in Southern European Seas: The PERSEUS experience. *Marine pollution bulletin*, 95 (1), 28-39.
- Petihakis, G., Theodorou, A., Tsiaras, K., Pollani, A., **Prospathopoulos, A.**, Triantafyllou, G., 2014. A Tool for Ecosystem-Based Management Applied to Pagasitikos Gulf. *Fisheries and Aquaculture Journal*, 5 (2), 1-4.
- Soukissian T., Gizari N., Fytillis D., Papadopoulos A., Korres G., **Prospathopoulos A.**, 2012. Wind and Wave Potential in Offshore Locations of the Greek Seas. Proceedings of the Twenty-second (2012) International Offshore and Polar Engineering Conference, Rhodes, Greece, June 17–22, 2012, pp. 525-532.
- Soukissian T., Sifnioti D.E., **Prospathopoulos A.**, Kastriti D., 2012. Short-term Wave Statistics in the Greek Seas. Proceedings of the Twenty-second (2012) International Offshore and Polar Engineering Conference, Rhodes, Greece, June 17–22, 2012, pp. 784-791.
- Tsabaris, C., Anagnostou, M.N., Patiris, D.L., Nystuen, J.A., Eleftheriou, G., Dakladas, Th., Papadopoulos, V., **Prospathopoulos, A.**, Papadopoulos, A., Anagnostou, E.N., 2011. A marine groundwater spring in Stoupa, Greece: Shallow water instrumentation comparing radon and ambient sound with discharge rate, *Procedia Earth and Planetary Science*, Vol. 4, pp.3-9.
- Tsabaris, C., Patiris, D.L., Karageorgis, A., Eleftheriou, G., Georgopoulos, D., Papadopoulos, V., **Prospathopoulos, A.**, Papathanasiou, E., 2011. Application of an in-situ system for continuous monitoring of radionuclides in submarine groundwater sources, in: *Advances in the Research of Aquatic Environment* (N. Lambrakis, Stournaras, G. and Katsanou, K., eds.), Vol. 2, pp. 249-256, Springer-Verlag, Berlin Heidelberg.
- Tsabaris, C., **Prospathopoulos A.**, 2011. Automated quantitative analysis of in-situ NaI measured spectra in the marine environment using a wavelet-based smoothing technique, *Applied Radiation and Isotopes*, Vol. 69 (10), pp. 1546-1553.
- Kulawiak, M., **Prospathopoulos A.**, Perivoliotis, L., Luba, M., Kioroglou, S., Stepnowski A., 2010. Interactive visualization of marine pollution monitoring and forecasting data via a Web-based GIS, *Computers & Geosciences*, Vol. 36 (8), pp. 1069-1080.
- **Prospathopoulos, A.M.**, Athanassoulis, G.A., Belibassakis, K.A., 2008. Underwater acoustic scattering from a radially layered cylindrical obstacle in a 3D ocean waveguide, *Journal of Sound and Vibration*, Vol. 319 (3-5), pp. 1285-1300.
- Soukissian, T., **Prospathopoulos, A.**, Hatzinaki, M., Kabouridou, M., 2008. Assessment of the wind and wave climate of the Hellenic Seas using 10-year hindcast results, *The Open Ocean Engineering Journal*, 1, pp. 1-12.
- Soukissian, T., **Prospathopoulos A.**, Korres, G., Papadopoulos, A., Hatzinaki, M., Kabouridou, M., 2008. A new Wind and Wave Atlas of the Hellenic Seas, in The Proceedings of the ASME 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE2008), OMAE2008-57082, Estoril, Portugal, 15-20 June 2008.

- Bratsos, A.G., Famelis, I.Th., **Prospathopoulos, A.M.**, 2007. A parametric finite-difference method for shallow sea waves, *International Journal for Numerical Methods in Fluids*, 53 (1) 129-147.
- Soukissian, T.H., **Prospathopoulos, A.M.**, 2006. The Errors-in-Variables approach for the validation of the WAM wave model in the Aegean Sea, *Mediterranean Marine Science*, Vol. 7 (1), pp. 47-62.
- **Prospathopoulos, A.**, Sotiropoulos, A., Chatziopoulos, E., Anagnostou, Ch., 2004. Cross-shore profile and coastline changes of a sandy beach in Pieria, Greece, based on measurements and numerical simulation, *Mediterranean Marine Science*, Vol. 5 (1), pp. 91-107.
- Soukissian, T.H., **Prospathopoulos, A.M.**, Diamanti, Ch., 2002. Wind and wave data analysis for the Aegean Sea – Preliminary results, *The Global Atmosphere and Ocean System*, vol. 8, No. 2–3, pp. 163-189.
- Soukissian, T., Perivoliotis, L., **Prospathopoulos, A.**, Papadopoulos, A., 2001. Performance of three numerical wave models on the Aegean Sea. First results, in The Proceedings of the 11th International Offshore and Polar Engineering Conference, Vol. III, J.S. Chung, M. Prevosto and N. Mizutani, eds., pp. 40-45 (Stavanger, Norway, 17-22 June 2001).
- Athanassoulis, G.A., **Prospathopoulos, A.M.**, 2000. Three-dimensional acoustic scattering from a penetrable layered cylindrical obstacle in a horizontally stratified ocean waveguide, *J. Acoust. Soc. Am.*, vol. 107, pp. 2406-2417.
- Athanassoulis, G.A., **Prospathopoulos, A.M.**, 1996. Three-dimensional acoustic scattering of a source-generated field from a cylindrical island, *J. Acoust. Soc. Am.*, vol. 100, pp. 206-218.

ANNEX 2: List of selected projects

2019-2021	DG ENV/MSFD Second Cycle/2018 Project: “Joint programme for GES assessment on D11-noise in the Mediterranean Marine Region /Acronym: QUIETMED2, Implementation: Hellenic Centre for Marine Research, Institute of Oceanography (HCMR-IO). Funding: EU (80%) (Leader).
2019-2022	H2020 Project: “Euro-Argo RISE (Euro-Argo Research Infrastructure Sustainability and Enhancement)” / Acronym: EA-RISE, Implementation: Hellenic Centre for Marine Research, Institute of Oceanography (HCMR-IO). Funding: EU (100%).
2017-2019	DG ENV/MSFD Second Cycle/2016 Project: “Support Mediterranean Member States towards coherent and coordinated implementation of the second phase of the MSFD (MEDCIS)”. Coordination: HCMR-IO. Funding: E.U. (Subtask leader).
2016-2019	INTERREG-MED 2014-2020 Project: “Promoting innovative nEtworks and cLusters for mARine renewable energy synerGies in mediterranean cOasts and iSlands (PELAGOS)”. Implementation: HCMR-IO. Funding: ERDF (Steering committee member).
2016-2018	Connecting Europe Facility (CEF) Transport Sector Project: “ELectrification of the Eastern MEDiterranean area (use of Cold Ironing and electricity as a propulsion alternative) - ELEMED”, Implementation: HCMR-IO. Funding: INEA.
2014	Environmental Impact Assessment (EIA) for Hydrocarbon Investigation and Exploitation, Vol. A: Ionian Sea (684 p.), Vol. B: Sea Region southwest of Crete (602 p.), Implementation: HCMR-IO. Funding: Ministry of Environment, Energy and Climate Change.
2013-2015	National Strategic Reference Framework (NSRF) project: “Proposals for Development of Research Organisations – KRIPIS / Integrated Observatories of Greek Seas”, Implementation: HCMR-IO. Funding: General Secretariat for Research and Technology (GSRT).
2013-2015	Greece-China bilateral cooperation: “Research and development of an in-situ underwater gamma-ray spectrometer for low-level radioactivity measurements (RADIOSCOPIO)”. Implementation: HCMR-IO. Funding: GSRT.
2012-2016	FP7-OCEAN-2011 Project: “Towards Coast to Coast NETworks of marine protected areas (from the shore to the high and deep sea), coupled with sea-based wind energy potential (COCONET)”. Implementation: HCMR-IO. Funding: E.U.
2012-2015	NSRF project: “Creation of a National Program for Exploitation of Offshore Wind Potential of Aegean Sea – Phase 1: Preparative Actions (AVRA)”. Implementation: HCMR-IO. Funding: GSRT.
2011-2013	FP7 BLACK SEA ERA.NET Project: “Investigation of Submarine Groundwater Discharge (SGD) for preventing pollution and eutrophication of the coastal Black Sea (SGD Black)”. Implementation: HCMR-IO. Funding: GSRT.
2011-2013	FP7-People-2009-IRSES Project: “Complex Research of Earthquake’s Prediction Possibilities, Seismicity and Climate Change Correlations (BlackSeaHazNet)”. Implementation: HCMR-IO. Funding: E.U.
2006-2008	Greece-Poland bilateral cooperation: “Development of a monitoring and mapping system for marine pollution via a Web-based Geographical Information System”. Implementation: HCMR-IO. Funding: GSRT. (Greek Coordinator)
2003-2006	“An Enhanced Operational System for Monitoring and Prediction of Waves with Applications in Hellenic Shipping”. Implementation: HCMR-IO. Funding: GSRT (50%), private companies (50%)
2002-2004	“Oceanographic measurements and development of numerical wave and current models in Saronikos Gulf for the Olympic Games 2004”. Implementation: HCMR-IO. Funding: Athens 2004 S.A.
1997-2002	“POSEIDON: A Monitoring, Forecasting and Information System for the Greek Seas”. Implementation: HCMR-IO. Funding: EFTA (85%) and Hellenic Ministry of Finance and Economics (15%).
1997	“A European offshore/nearshore statistical toolbox for timely wave climate assessment (EUROWAVES)”, Implementation: School of Naval Architecture & Marine Engineering (SNAME), NTUA, Funding: XII DG, E.U.
1996-1997	“Atlas of wave energy resource in Europe (WERATLAS)”, Implementation: SNAME, NTUA, Funding: XII DG, E.U.
1994-1997	“Systematic study of hydroacoustic characteristics of Aegean Sea (AMFITRITI)”, Implementation: SNAME, NTUA, Funding: Hellenic Navy.