

PERSONAL INFORMATION



Paraskevi Bourma

 Messinis 9, Alimos, 17456, Greece

 +302291076404

 evibourma@hcmr.gr

 Skype evibour

Sex Female Nationality Greek

WORK EXPERIENCE

2012 – present

Postdoctoral Associate Researcher

Institute of Oceanography, Hellenic Centre for Marine Research (HCMR)

- Participation in scientific projects related oil spill pollution management and numerical modelling of oil dispersion in the sea
- Glider team leader of the HCMR Operational Oceanography Division
- Scientific interests: ocean monitoring using underwater gliders, numerical modeling of oil spill dispersion and weathering

2005 – 2011

Research Scientist

School of Naval Architects and Marine Engineers, National Technical University of Athens (NTUA)

- Participation in two research projects in the field of ocean engineering (offshore structures and underwater vehicles hydrodynamics)
- Scientific interests: hydrodynamic analysis and design of autonomous underwater vehicles (gliders) for oceanographic applications, floating structures hydrodynamics, evaluation of wind and current loads on offshore structures and ships, coupled dynamics of interconnected floating structures in frequency – and time – domain, static and dynamic analysis of mooring line systems

EDUCATION AND TRAINING

2010

PhD in Ocean Engineering

National Technical University of Athens

PhD Thesis: "Design of Autonomous Underwater Buoyancy Driven Vehicle"

- motion dynamics and hydrodynamics of autonomous underwater vehicles
- hydrodynamic design of an underwater glider, hull and shape optimization
- control and navigation strategies for autonomous underwater gliders

2005

MSc in Marine Technology and Science

National Technical University of Athens

Master dissertation: "Mean Wind and Time – Depended Loads on Gas Import Floating Terminals and LNG Carriers"

- coupled dynamics of interconnected floating structures in frequency and time domain
- evaluation of wind and current loads on offshore floating structures and ships

2002 BSc in Physics

University of Athens

- Member of Spectroscopy Team (2000 - 2002), in the Department of Astrophysics, Astronomy and Mechanics
- Research on the spectroscopy of hot emission stars in the optical range of the electromagnetic spectrum and in the ultraviolet (UV) through IUE satellite data, diploma thesis: "Study on the Structure of the Gaseous Envelopes of Be spectral type stars – The example of the star HD 50138"

PERSONAL SKILLS

Mother tongue(s) Greek

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C1
Spanish	B1	B2	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

ADDITIONAL INFORMATION

Publications

Journals

George Petihakis, Leonidas Perivoliotis, Gerasimos Korres, Dionysios Ballas, Constantin Frangoulis, Paris Pagonis, Manolis Ntoumas, Manos Pettas, Antonis Chalkiopoulos, Maria Sotiropoulou, Margarita Bekiari, Alkiviadis Kalampokis, Michalis Ravdas, Evi Bourma, Sylvia Christodoulaki, Anna Zacharioudaki, Dimitris Kassis, Emmanuel Potiris, George Triantafyllou, Kostas Tsiaras, Evangelia Krasakopoulou, Spyros Velanas, and Nikos Zisis, 2018, An integrated open-coastal biogeochemistry, ecosystem and biodiversity observatory of the eastern Mediterranean – the Cretan Sea component of the POSEIDON system, Ocean Sci., 14, 1223-1245, 2018, <https://doi.org/10.5194/os-14-1223-2018>

Zodiatis G, Coppini G, Perivoliotis L, Lardner R, Alves T, Pinaridi N, Liubartseva S, De Dominicis M, Bourma E, Sepp Neves AA, 2018. Numerical modeling of oil pollution in the eastern Mediterranean sea. Springer, The Handbook of Environmental Chemistry 2018;83:215-54, doi:10.1007/698_2017_131

Zodiatis G, De Dominicis M, Perivoliotis L, Radhakrishnan H, Georgoudis E, Sotillo M, Lardner R.W, Krokos G, Bruciaferri D, Clementi E, Guarnieri A, Ribotti A, Drago A, Bourma E, Padorno E, Daniel P, Gonzalez G, Chazot C, Gouriou V, Kremer X, Sofianos S, Tintore J, Garreaum P, Pinaridi N, Coppini G, Lecci R, Pisano A, Sorgente R, Fazioli L, Soloviev D, Stylianou S, Nikolaidis A, Panayidou X, Karaolia A, Gauci A, Marcati A, Caiazza L, Mancini M., 2016, The Mediterranean Decision Support System for Marine Safety dedicated to oil slicks predictions, Deep-Sea Research II 133 (2016) 4–20, <http://dx.doi.org/10.1016/j.dsr2.2016.07.014>

Conferences

- Frangoulis K., Petihakis G., Perivoliotis L., Korres G., Ballas D., Pagonis P., Ntoumas M., Pettas M., Sotiropoulou M., Bekiari M., Kalampokis A., Ravdas M., Bourma E., Christodoulaki S., Zacharioudaki A., Triantafyllou G., Tsiaras K., Varotsou E., Velanas S.: *The POSEIDON Supersite Observatory. A Technological Test-bed for the Eastern Mediterranean*, June 2019, Conference: OCEANS 2019 – Marseille. DOI: 10.1109/OCEANSE.2019.8867105
- Evi Bourma, Maria Sotiropoulou, Antonis Chalkiopoulos and Leonidas Perivoliotis, “BigDataOcean: Exploiting oceans of data for marine applications”, *MonGOOS Workshop proceedings on operational oceanography downstream services*, Genoa, 4-5th of December 2018
- L. Perivoliotis, G. Petihakis, M. Korres, D. Ballas, C. Frangoulis, P. Pagonis, M. Ntoumas, M. Pettas, A. Chalkiopoulos, M. Sotiropoulou, M. Bekiari, A. Kalampokis, M. Ravdas, E. Bourma, S. Christodoulaki, A. Zacharioudaki, D. Kassis, M. Potiris, G. Triantafyllou, A. Papadopoulos, K. Tsiaras and S. Velanas, 2017, *The POSEIDON system, an integrated observing infrastructure at the Eastern Mediterranean as a contribution to the European Ocean Observing System*, 8th EuroGOOS Conference Bergen, 3-5 October 2017
- Bourma, E., Perivoliotis L., Ballas D., Velanas S., Chalkiopoulos A. and the POSEIDON team, 2016, *The POSEIDON system: A new Glider component and future applications*, 7th EGO conference on autonomous ocean gliders and their applications, (Poster session), 26-29th September 2016, Southampton, UK.
- Bourma, P., Thanos, I., Mavrakos, S., 2011, *Glider design process: starting from the beginning*, 5th EGO Meeting and Glider School, 2011 March 14th – 18th, Gran Canaria, Spain.
- Bourma, P.D., Thanos, I.F. and Mavrakos, S.A., 2008, *Quality Control Protocol for an Autonomous Underwater Glider*, Proceedings (Poster Session) IMDIS 2008, International Conference On Marine Data and Information Systems, 31 March – 2 April, 2008, Athens, Greece.
- Bourma, P.D., Thanos, I.F., Chatjigeorgiou, I.K. and Mavrakos, S.A., 2007, *Slowly varying motions of two interconnected floating structures considered as a two degree of freedom oscillator*, Proceedings of 8th HSTAM International Congress on Mechanics, Patras, Greece, Vol.1, 223 – 230.
- Triantafyllou, M. S., Mavrakos, S. A., Bourma, P., Mazarakos Th., and Thanos, I. 2006, *Model Scaling and Testing of a Floating LNG Terminal*, MIT and NTU Athens, USA and Greece, 9th International Marine Design Conference (IMDC 2006), 16 – 19 May 2006, Ann Arbor, Michigan.
- Chatjigeorgiou I.K., Thanos I.F., Bourma P.D., Mazarakos T.P., and Mavrakos S.A., 2006, *Mooring System and Motion Response Analysis of a Gas Import Floating Terminal in Operating and Survival conditions*, Proceedings of 25th International Conference on Offshore Mechanics and Arctic Engineering (OMAE2006), June 4-9, 2006, Hamburg, Germany, ASME Conf. Proc. Paper No. OMAE2006-92349, Vol.1, 385 – 392.
- Lyratzi E., Danezis E., Nikolaidis D., Theodossiou E., Stathopoulou M., Drakopoulos Ch., Bourma P., 2001, *Application of a new model of density shells of matter to the expanding gaseous envelope of the star HD 45910 (AX Monocerotis)*, 2001, [hell.confE, 67](#), 5th Hellenic Astronomical Conference, September 2001, Crete, Greece.
- Danezis E., Christou G., Stathopoulou M., Theodossiou E., Nikolaidis D., Lyratzi E., Drakopoulos Ch., Bourma E., Soulikias A., 2001, *Phenomena of hyperionization and emission in the gaseous envelope of the star HD 66811 (ζ Puppis)*, 2001, [hell.confE, 63](#), 5th Hellenic Astronomical Conference, September 2001, Crete, Greece.
- Danezis E., Nikolaidis D., Theodossiou E., Kosionidis A., Stathopoulou M., Lyratzi V., Drakopoulos C. and Bourma P., 2000, *A simple model for the complex structure of moving atmospheric shells in Oe and Be stars. The example of HD 36861, some first conclusions*. JENAM 2000, May 29-June 3, 2000 Moscow, Russia.
- Danezis E., Nikolaidis D., Theodossiou E., Kosionidis A., Stathopoulou M., Lyratzi V., Drakopoulos C. and Bourma P., 2000, *A simple model for the complex structure of moving atmospheric shells in Oe and Be stars. The example of HD 66811, some first conclusions*. JENAM 2000, May 29-June 3, 2000 Moscow, Russia.
- Danezis E., Nikolaidis D., Theodossiou E., Kosionidis A., Stathopoulou M., Lyratzi V., Drakopoulos C. and Bourma P., 2000, *A simple model for the complex structure of moving atmospheric shells in Oe and Be stars. The example of HD 152408, some first conclusions*. JENAM 2000, May 29-June 3, 2000 Moscow, Russia.

Projects

- 2019 – 2020: "Hellenic Integrated Marine Inland water Observing, Forecasting and offshore Technology System , HIMIOFoTS", funding: GRST, EPanEK, <http://www.himiofots.gr>
- 2017 – 2019: "BigDataOcean", funding: EU, H2020, <http://www.bigdataocean.eu>
- 2015 – 2017: "Fixed – point open ocean observatories, FixO3", funding: EU, H2020, <http://www.fixo3.eu/>
- 2012 – 2015: "Mediterranean Decision Support System for Marine Safety – MEDESS-4MS", funding: Med Programme, <http://www.medess4ms.eu/>
- 2005 – 2007: "Gas Import Floating Terminal – GIFT", funding EU, Direction for Transport
- 2006 – 2009: "Design of autonomous buoyancy driven underwater vehicle", funding GSRT, PENED 2003

References

- *Leonidas Perivoliotis, Special Scientist, H.C.M.R., Institute of Oceanography, lperiv@hcmr.gr*
- *Prof. Dr.-Ing. Spyros Mavrakos, NTUA, School of Naval Architecture and Marine Engineering, mavrakos@naval.ntua.gr*