

PERSONAL INFORMATION



 HCMR, P.O. Box 2214, Heraklion, 71003, Crete, Greece
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Sex Female | Date of birth 18/06/1978 | Nationality Greek

WORK EXPERIENCE

- 2014-present **Research associate**
 Hellenic Centre for Marine Research (HCMR), Institute of Oceanography, Athens, Greece

 - Wave climate statistics for the Mediterranean Sea
 - Wave model performance evaluation
 - Operational implementation

- 2010-2012 **Post-doctoral research associate**
 Centre for Marine and Environmental Research (CIMA), University of the Algarve, Faro, Portugal

 - Regional wave model (SWAN) implementation for the Tuscan Archipelago
 - Wave model integration with hydronamics and oil models (MOHID)
 - Pre-operational mode implementation

- 2007-2010 **Post-doctoral research associate**
 School of Marine Science and Engineering, University of Plymouth, Plymouth, UK

 - Wave model (WaveWatch III) implementation for the investigation of wave climate changes over the Western European continental shelf
 - Implications of climatic changes on a wave farm

- 2005-2007 **Part-time demonstrator**
 School of Marine Science and Engineering, University of Plymouth, Plymouth, UK
 Subjects: Hydraulic Engineering II, Graphical Representation & IT, Introduction to IT

EDUCATION AND TRAINING

- 2004-2008 **PhD in Coastal Engineering**
 School of Marine Science and Engineering, University of Plymouth, Plymouth, UK

 - Development and application (analytical and numerical) of 'one-line' modelling techniques for long-term shoreline change
 - Implementation of simple parametric wave models
 - Investigation of shoreline response to wave climate changes

- 2002-2004 **MSc in Oceanography**
 School of Ocean and Earth Science, University of Southampton, Southampton, UK
 MSc dissertation:

- Implementation (Katerini, NW Aegean Sea) of a 'mild slope' wave model (RCPWAVE) for nearshore wave transformation
- Littoral drift estimates

1997-2002 **BSc in Environmental Science**

Department of Environmental Sciences, University of the Aegean, Mitilini, Lesvos, Greece

PERSONAL SKILLS

Mother tongue(s) Greek

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Cambridge English: Proficiency					
Portuguese	B1	B1	A2	A2	A2
B1 level certificate					
French	B1	B1	B1	B1	B1
Delf A1, A2, B1					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Computer skills

- Programming: experienced Matlab user, familiar with Fortran, R, and Python
- Software: office suite (word processor, spread sheet, presentation software), manipulation, analysis, and display of earth and atmospheric science data (e.g. GrADs, CDO, Surfer, Grapher)

ADDITIONAL INFORMATION

Publications

Refereed journal papers

- Álvarez Fanjul, E., Pascual Collar, A., Pérez Gómez, B., [and 16 others, including **Zacharioudaki, A.**] (2019). "Sea level, sea surface temperature and SWH extreme percentiles: combined analysis from model results and in situ observations". In: Copernicus Marine Service Ocean State Report, Issue 3, *Journal of Operational Oceanography*, 12:sup1,s31-s42
- Le Trayon, P.Y., Reppucci, A., Álvarez Fanjul, [and 76 others, including **Zacharioudaki, A.**] (2019). "From Observation to Information and Users: The Copernicus Marine Service Perspective". *Frontiers in Marine Science*, 6(234), 22p.
- Pérez Gómez, B., De Alfonso, M., **Zacharioudaki, A.**, Pérez González, I., Álvarez Fanjul, E. [leading authors], Müller, M., Marcos, M., Manzano, F., Korres, G., Ravdas, M., Tamm, S. [contributing authors] (2018). "Sea level, SST and waves: extremes variability". In: Copernicus Marine Service Ocean State Report, Issue 2, *Journal of Operational Oceanography*, 11:sup1,s79-s88
- Petihakis, G., Perivoliotis, L., Korres, G., [and 20 others, including **Zacharioudaki, A.**] (2018). "An integrated open-coastal biogeochemistry, ecosystem and biodiversity observatory of the Eastern Mediterranean - the Cretan Sea component of the POSEIDON system". *Ocean Science*, 14: 1223-1245

- Ravdas, M.*, **Zacharioudaki, A.***, Korres, G. (2018). "Implementation and validation of a new operational wave forecasting system of the Mediterranean Monitoring and Forecasting Centre in the framework of the Copernicus Marine Environment Monitoring Service". *Natural Hazards and Earth System Sciences*, 18: 2675-2695
 * *These authors contributed equally to this work*
- Zacharioudaki, A.**, Korres, G., Perivoliotis, L.. (2015). "Wave climate of the Hellenic Seas obtained from a wave hindcast for the period 1960-2001". *Ocean Dynamics*, 65(6): 795-816
- Janeiro, J., **Zacharioudaki, A.**, Sarhadi, E., Neves, A., Martins, F. (2014). "Enhancing the management response to oil spills in the Tuscany Archipelago through operational modelling". *Marine Pollution Bulletin*, 85: 574-589
- Reeve, D.E, Chen, Y., Pan, S., Magar, V., Simmonds, D.J., **Zacharioudaki, A.** (2011). "An investigation of the impacts of climate change on wave energy generation: The Wave Hub, Cornwall, UK". *Renewable Energy*, 36(9): 2404-2413
- Zacharioudaki, A.**, Reeve, D.E., Pan, S., Simmonds, D., Magar, V. (2011). "Future wave climate over the west-European shelf seas". *Ocean Dynamics*, 61(6): 807-827
- Zacharioudaki, A.** and Reeve, D. (2011). "Shoreline evolution under climate change wave scenarios". *Climatic Change*, 108(1): 73-105
- Zacharioudaki, A.** and Reeve, D. (2010). "A note on the numerical solution of the One-line model". *Environmental modelling and software*, 25: 802-807
- Zacharioudaki, A.** and Reeve, D. (2008). "Semianalytical solutions of shoreline response to time-varying wave conditions". *Journal of Waterway, Port, Coastal and Ocean Engineering*, 134(5): 265-274

Refereed conference Papers

- Frangoulis, C., Petihakis, G., Perivoliotis, L., [and 16 others, including **Zacharioudaki, A.**] (2019). "The POSEIDON Supersite Observatory. A Technological Test-bed for the Eastern Mediterranean". OCEANS 2019, Marseille, France, doi: 10.1109/OCEANSE.2019.8867105
- Zacharioudaki, A.** and Reeve, D.E. (2011). "Modelling shoreline evolution in response to climate change". *Proceedings of the 32nd International Conference on Coastal Engineering* (2010), Shanghai, China
- Reeve, D., Wang, B., Tomas, L., and **Zacharioudaki, A.** (2009). "Simulation of long-term beach changes within a flood defence scheme". *Proceedings of the Conference on Coast, Marine Structures and Breakwaters*, ICE, Edinburgh, Scotland, CD-ROM
- Zacharioudaki, A.** and Reeve, D. (2007). "Explicit formulae of shoreline change under time-varying forcing". *Proceedings of the Conference on River, Coastal and Estuarine Morphodynamics: RCEM2007*, Twente, Netherlands, 1067-1074

Reports

- Zacharioudaki, A. (2008). "Mathematical modelling of shoreline evolution under climate change". PhD thesis, Faculty of Technology, School of Engineering, University of Plymouth, 259 pp.
- Zacharioudaki, A. (2003). "Coastal processes and sediment transport: Katerini, Thermaikos Gulf, NW Aegean Sea". MSc dissertation, Faculty of Science, School of Ocean and Earth Science, University of Southampton, 78 pp.
- Zacharioudaki, A. (2002). "The morphodynamic equilibrium of the sandy beach of Paralia (Katerini) – Beach erosion as a consequence of human interference". BSc dissertation, Department of Environmental Sciences, University of the Aegean, 93 pp.

- Projects**
- CMEMS MED-MFC I & 2: Copernicus Marine Environment Monitoring Service Mediterranean - Monitoring Forecasting Centre (2015 – present)
Funded by the European Commission
- MEDESS-4MS: Mediterranean Decision Support System for Marine Safety (2014-2015)
Funded by the European Commission
- ARGOMARINE: Automatic Oil spill Recognition and Geopositioning integrated in a Marine Monitoring Network (2010-2012)
European project funded under the 7th FWP (Framework Programme).
- Wave modelling for the Wave Hub (2007-2010)
Funded by SWRDA (South West of England Regional Development Agency), UK.
- Awards**
- Postgraduate Research Scholarship (2004-2007) granted by the University of Plymouth, UK, for studies leading to the PhD degree. The scholarship covered EU tuition fees plus a stipend
- Postgraduate Research Scholarship (31,860 €) granted by the Alexander S. Onassis Public Benefit Foundation, Greece, for studies leading to the PhD degree (declined).
- References**
- Dr. Gerasimos Korres**, Researcher, Institute of Oceanography, HCMR, 46.7 km Athens – Sounio ave., P.O. Box 712, P.C.19013 Anavyssos Greece
Tel: +30 2291076402 email: gkorres@hcmr.gr
- Prof. Flávio Augusto Martins**, Professor of Fluid Dynamics, Department of Mechanical Engineering, Institute of Engineering, University of the Algarve, Campus da Penha, Faro 8005-139, Portugal
Tel: +351 289800900 email: fmartins@ualg.pt
- Prof. Dominic Reeve**, Professor of Coastal Dynamics, School of Marine Science and Engineering, University of Plymouth, Drake Circus, Plymouth, Devon PL4 8AA, UK
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