Vasileios Afentoulis

Civil engineer

École Polytechnique Paris - National Technical University of Athens

Specialty: Hydraulic, Coastal and Ocean Engineering
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Education

2015 - Now	**PhD student**, *"Propagation of water waves in shallow water with emphasis on fluid-seabed interactions"*, Laboratory of Harbor Works National Technical University of Athens, Greece.
Supervisors	Tsoukala V.(NTUA), Mohammadi B.(Université de Montpellier), Belibasakis K.(NTUA)
2013 - 2014	**Master of Science**, *École polytechnique*, Paris, France.
	Water, Air, Pollution and Energy at local and regional scales
2006 - 2012	**Diploma in Civil Engineering**, *National Technical University of Athens* , Greece.
	Specialty : Water Resources and Environmental Engineering

Experience-Projects

2017 - 18	**Evaluation and Prioritization of Erosion Protection Measures along the Coast of Avlida, Evia Greece**.
Title	*Detailed Investigation of Erosion Phenomenon Taking Place in the Coastal Front of Avlida Beach and Design of Defence Structures. This Program is Under the Egis of Ministry for the Environment Physical Planning and Public Works.*
2016 - 17	**Research Project for Excellence IKY/SIEMENS**.
Title	*Sustainable Design of Coastal Construction and Adaptation of the Risks of Climate Change*
2015 - 17	**Pearl Project**, *European Union's Programme for Research* .
Title	PEARL - Preparing for Extreme And Rare events in coastaL regions
	`http://www.pearl-fp7.eu/casestudies/greece/`
2015 - 17	**Teaching assistant**, DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING, NTUA.
Courses	"Special Topics of Port Works", "Coastal Engineering"
	Supervision of several postgraduate and undergraduate dissertations
2014 - 15	**Industrial Engineering Consultant**, CNWAY - ENGINEERING CONSULTANTS LP, Researched and developed a solution to design coastal structures.
2014	**Internship**, CNRS MONTPELLIER II, Géosciences Montpellier.
Title	*Experimental and numerical modeling of wave propagation in shallow-water and fluid-seabed interaction*
Supervisors	Bouchette Frédéric, Bijan Mohammadi

2013	**Research Project**, LMD, École polytechnique.
Title	*Arithmetical analysis of the wave propagation in the south Mediterranean using satellite measurements*
Supervisor	Alexandre Stegner
2012	**Master Thesis**, Laboratory of Harbor Works, NTUA.
Title	*Numerical investigation of the wave action downstream of port*
Supervisor	Tsoukala Vicky

Conferences Papers and Publications

2017, September — **Malliouri D., Afentoulis V., Bonaros V., Memos C., and Tsoukala V.**, *Integrated Design of Coastal Structures and Adaptation to Climate Change Hazards*, 15th International Conference on Environmental Science and Technology, Rhodes, Greece (oral presentation). https://cest.gnest.org/sites/default/files/presentation_file_list/cest2017_00880_oral_paper.pdf

2017, April — **Afentoulis V., Mohammadi B., Tsoukala V.**, *The investigation of form and processes in the coastal zone under extreme storm events : the case study of Rethymno - Greece*, EGU General Assembly 2017, Vienna Austria (oral presentation). meetingorganizer.copernicus.org/EGU2017/EGU2017-7077.pdf

2017 — **Afentoulis V., Kragiopoulou E., Skarlatou E., Moschos E., Lykou A., Makropoulos C., Tsoukala V.**, *Coastal Processes Assessment Under Extreme Storm Events Using Numerical Modelling Approaches*, Environmental Processes 4.3 (2017) : 731-747. https://doi.org/10.1007/s40710-017-0253-8

2016, July — **Afentoulis V., Mohammadi B., Tsoukala V.**, *Experimental and Numerical Modelling of Wave Propagation in Shallow Water and Fluid-Seabed Interaction*, 35th International Conference on Coastal Engineering (ICCE 2016), (oral presentation), https://icce-ojs-tamu.tdl.org/icce/index.php/icce/article/view/8156.

Workshops - Summer Schools

2017, August — **NeXus of Water, Food and Energy : Summer School**, *Technical University of Munich*, *Germany*.

2016, 3-7 June — **ASTARTE, PEARL and TANDEM Summer School**, *Chania Crete* , (European Geosciences Union scholarship).

2014, July — **Journées scientifiques GLADYS**, *Cévennes France*.

Distinctions

Scholarship — By the State Scholarships Foundation (IKY) as doctoral student

Computer skills

Programming	Python, Fortran, Matlab, C, java, Perl, Microsoft Visual Basic.NET
Engineering Software	ArcGIS, DraftSight, AutoCAD, SolidWorks, XBeach, Delft3D, Telemac-Mascaret, Mike21-DHI, Swan, Ansys, Abaqus, COMSOL Multiphysics
Operating Systems	Linux, Microsoft Windows, Mac OSX
Web Page Design	html, JSP (Java Server Pages), PHP
Word Processing	Microsoft Word ,LaTeX, OpenOffice

Languages

Greek	**Native speaker**
French	**Proficient**
English	**Proficient**

Interests

Reading, Traveling, Blogging, Sports