



# Vasileios Afentoulis

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## Civil engineer

**École Polytechnique Paris - National Technical University of Athens**

Specialty: Hydraulic, Coastal and Ocean Engineering

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Birth date and place: 09/10/1988 - Marousi Attiki Greece

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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

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## Experience-Projects

- 2018 **Wave-current interaction over a movable bed**, *Research Visitor in the context of the ongoing Dissertation, ÉCOLE CENTRALE MARSEILLE.*
- Supervisor Michel Benoit
- 2017 - 18 **Evaluation and Prioritization of Erosion Protection Measures along the Coast of Avlida, Evia Greece.**
- Title *Detailed Investigation of Erosion Phenomenon in the Coastal Front of Avlida Beach and Design of Defence Structures. This Program is Under the Supervision 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

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## 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](https://cest.gnest.org/sites/default/files/presentation_file_list/cest2017_00880_oral_paper.pdf)
- 2017, September **Moschos E., Manou G., Dimitriadis P., Afentoulis V., Koutsoyiannis D. and Tsoukala V. K.**, *Harnessing wind and wave resources for a Hybrid Renewable Energy System in remote islands : a combined stochastic and deterministic approach*, Energy Procedia 125 (2017) : 415-424, <https://doi.org/10.1016/j.egypro.2017.08.084>.
- 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](https://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>.

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## 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.

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## Distinctions

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

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## Computer skills

Programming PYTHON, FORTRAN, MATLAB, C, JAVA, PERL, MICROSOFT VISUAL BASIC.NET  
Engineering ArcGIS, DraftSight, AutoCAD, SolidWorks, XBeach, Delft3D, Telemac-Mascaret,  
Software 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 , $\text{\LaTeX}$ , OpenOffice

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## Languages

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

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## Interests

Reading, Traveling, Blogging, Sports