



DETAILED CURRICULUM VITAE

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PERSONAL INFORMATION

Full Name: Achilleas Samaras
 Father's Name: Grigorios
 Place of birth: Thessaloniki, Greece
 Year of birth: 1982
 Nationality: Greek
 Academic position: Assistant Professor of Maritime Hydraulics, Port & Harbour Engineering
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EDUCATION



- 2010 Ph.D. in Civil Engineering
 Honours with Distinction (Valedictorian)
 Department of Civil Engineering, Aristotle University of Thessaloniki, Greece
Dissertation: The impact of watershed management on coastal morphology. ([Ext. abstract](#); [Full-text](#) – GR)
- 2006 M.Sc. in Environmental Protection and Sustainable Development
 Honours – GPA 9.38/10.00 (Valedictorian – First Individual Overall)
 Department of Civil Engineering, Aristotle University of Thessaloniki, Greece
Diploma Thesis: Modelling the impact on coastal morphology of the water management in transboundary river basins. The case of River Nestos.
- 2005 Diploma in Civil Engineering (5-year Degree)
 Honours – GPA 8.74/10.00 (Valedictorian – First Individual Overall)
 Department of Civil Engineering, Aristotle University of Thessaloniki, Greece
Diploma Thesis: Hydrodynamic and oil spill transport computational models in the Thessaloniki Port area.

RESEARCH INTERESTS



My research interests cover the fields wave dynamics and 3D-hydrodynamics in marine and coastal areas, sediment transport and coastal morphodynamics, coastal erosion and flooding, design of harbour, coastal and marine structures, design of coastal protection methods, climate change effects on harbours and coastal zones, adaptation to climate change in harbours and coastal areas, estuarine dynamics, integrated watershed and coastal zone management, climate change impact in watershed-coast systems, tsunami dynamics and oil spill dynamics, specializing in the development and use of numerical models in the above.



HONOURS – AWARDS – DISTINCTIONS

- 2020 Invitation by Acta Geophysica (Publisher: Springer) to join the Editorial Board of the Journal (Editorial Board Member Invitation) in the Hydrology Section ([Link](#)).
- 2020 Invitation by the Journal of Marine Science and Engineering (Publisher: MDPI) to join the Editorial Board of the Journal (Editorial Board Member Invitation) in the Coastal Engineering Section ([Link](#)).
- 2019 Paper [\[J.12\]](#) "Simulation of tsunami generation, propagation and coastal inundation in the Eastern Mediterranean." selected to be included in the Encyclopedia of Geosciences, a publication launched by the European Geosciences Union (EGU), under two topics: The hydrosphere > Oceans > Ocean Waves and The hydrosphere > Oceans > The Mediterranean Sea ([Link](#)).
- 2018 Invitation by the Journal of Marine Science and Engineering (Publisher: MDPI) to Guest Edit a Special Issue on Coastal Engineering (Guest Editor Invitation). The Special Issue entitled "Modelling of Harbour and Coastal Structures" (Guest Editors: Prof. Th.V. Karambas & A.G. Samaras) was launched on November 20th, 2018. ([Link](#); [PDF](#))
- 2017 Invited talk at the event for the 20th anniversary of the M.Sc. Postgraduate Programme "Environmental Protection and Sustainable Development" of the Department of Civil Engineering, Aristotle University of Thessaloniki, as a Valedictorian of the Programme ([PDF](#))
- 2016 Selection to be part of the 5x1000 Campaign for the financial support of research at the University of Bologna as a notable researcher of the Institution. ([Link](#))
- 2015 Paper [\[J.12\]](#) "Simulation of tsunami generation, propagation and coastal inundation in the Eastern Mediterranean." selected by the European Geosciences Union (EGU) for the issue of a press release that appeared on the front page of the EGU website. ([Link](#))
- 2015 Paper [\[J.05\]](#) "Modeling the impact of climate change on sediment transport and morphology in coupled watershed-coast systems: A case study using an integrated approach." ranked 13th in the "Top 25 Hottest Articles" of the Journal "International Journal of Sediment Research" (Publisher: Elsevier; Subject area: Earth and Planetary Sciences) for the period from January to March 2015. ([PDF](#))
- 2015 Paper [\[J.05\]](#) "Modeling the impact of climate change on sediment transport and morphology in coupled watershed-coast systems: A case study using an integrated approach." ranked 5th in the "Top 25 Hottest Articles" of the Journal "International Journal of Sediment Research" (Publisher: Elsevier; Subject area: Earth and Planetary Sciences) for the period from October to December 2014. ([PDF](#))
- 2014 Paper [\[J.04\]](#) "The impact of watershed management on coastal morphology: A case study using an integrated approach and numerical modeling." ranked 13th in the "Top 25 Hottest Articles" of the Journal "Geomorphology" (Publisher: Elsevier; Subject area: Earth and Planetary Sciences) for the period from January to March 2014. ([PDF](#))
- 2012 Young Scientist Award from the Organizing Committee of the International Conference "Protection and Restoration of the Environment XI" for paper [\[C.14\]](#) entitled "Climate change and its impact on sediment transport and morphology in the watershed-coast entity". ([PDF](#))
- 2010 Graduation with "Honours with Distinction" and as a Valedictorian from Ph.D. Studies at the Department of Civil Engineering, Aristotle University of Thessaloniki (*Degree: Ph.D. in Civil Engineering*).
- 2010 First Award from the Hellenic Hydrotechnical Association for the Diploma Thesis entitled "Hydrodynamic and oil spill transport computational models in the Thessaloniki Port area". ([PDF](#))
- 2009 Excellence Scholarship from the Aristotle University of Thessaloniki Research Committee as a Ph.D. Candidate of the Institution (1-year Scholarship).
- 2008 Honorary Award from the Technical Chamber of Greece (TEE) "for the overall performance during his studies (2000-2005)".
- 2008 Honorary Co-Chair at the Meeting "Environment: from education to action" (May 22, 2008), as a Valedictorian of the M.Sc. Postgraduate Programme "Environmental Protection and Sustainable Development" of the Department of Civil Engineering, School of Engineering, Aristotle University of Thessaloniki.
- 2007 Scholarship from the International Foundation Alexander S. Onassis for Doctoral Studies in the Department of Civil Engineering in Aristotle University of Thessaloniki (3-year Scholarship; 2007-2010).

- 2007 Award from the Technical Chamber of Greece (TEE) “for the performance in the fourth year of his undergraduate studies (2003-2004)”.
- 2006 Graduation with "Honours" (G.P.A. 9.38/10.00) and as a Valedictorian from M.Sc. studies (First Individual Overall among all M.Sc. Courses' students) at the Department of Civil Engineering, Aristotle University of Thessaloniki (*Degree: M.Sc. in Environmental Protection and Sustainable Development*).
- 2006 Award from the Greek State Scholarships Foundation (IKY) for the performance in the fourth year (2003-2004) of undergraduate studies (G.P.A. 9.21/10.00 – 1st individual overall).
- 2006 Honorary Scholarship from the Greek State Scholarships Foundation (IKY) for the performance in the fourth year (2003-2004) of undergraduate studies (G.P.A. 9.21/10.00 – 1st individual overall).
- 2005 Selection of Undergraduate Diploma Thesis to be presented in the Diploma Theses Exhibition “The School of Engineering and the city: The students design the city”, which took place in the framework of the celebrations for the 50th Anniversary of Aristotle University of Thessaloniki’s School of Engineering.
- 2005 Graduation with "Honours" (G.P.A. 8.74/10.00) and as a Valedictorian from undergraduate studies (First Individual Overall) at the Department of Civil Engineering, Aristotle University of Thessaloniki (Degree: Diploma in Civil Engineering).
- 2003 Honorary Scholarship from the Greek State Scholarships Foundation (IKY) for the performance in the first year (2000-2001) of undergraduate studies (G.P.A. 8.23/10.00 - 2nd individual overall).
- 2000 Eighth (8th) Individual Overall to be admitted to the Department of Civil Engineering, Aristotle University of Thessaloniki (Grade 195.74/200.00).

SCIENTIFIC PUBLICATION ACTIVITY

DOCTORAL DISSERTATION – DIPLOMA THESES



- [D.01] Samaras, A.G. (2010). The impact of watershed management on coastal morphology. Doctoral Dissertation, Department of Civil Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece, p. 346. ([Extended abstract](#); [Full-text](#) – GR).
- [T.02] Samaras, A.G. (2006). Modelling the impact on coastal morphology of the water management in transboundary river basins. The case of River Nestos. Diploma Thesis, M.Sc. Postgraduate Programme on “Environmental Protection and Sustainable Development, Department of Civil Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece, p. 193.
- [T.01] Samaras, A.G. (2005). Hydrodynamic and oil spill transport computational models in the Thessaloniki Port area. Diploma Thesis, Department of Civil Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece, p. 162

PUBLICATIONS IN PEER-REVIEWED JOURNALS



- [J.20] **Samaras, A.G.** and Karambas, Th.V. (2021). Numerical simulation of ship-borne waves using a 2DH post-Boussinesq model. *Applied Mathematical Modelling*, 89, pp.1547-1556, [DOI](#).
- [J.19] Mentis, A., Galiatsatou, P., Spyrou, D., **Samaras, A.** and Stournara, P. (2020). Hydraulic simulation and analysis of an urban center’s aqueducts using emergency scenarios for network operation: The case of Thessaloniki City in Greece. *Water*, 12 (6), 1627, [DOI](#).
- [J.18] Gaeta, M.G., **Samaras, A.G.** and Archetti, R. (2020). Numerical investigation of thermal discharge to coastal areas: a case study in South Italy. *Environmental Modelling & Software*, 124, 104596, [DOI](#).
- [J.17] Gaeta, M.G., Bonaldo, D., **Samaras, A.G.**, Carniel, S. and Archetti, R. (2018). Coupled wave - 2D hydrodynamics modeling at the Reno river mouth (Italy) under climate change scenarios. *Water*, 10 (10), 1380, [DOI](#). ([PDF](#))
- [J.16] Bonaldo, D., Antonioli, F., Archetti, R., Bezzi, A., Correggiari, A., Davolio, S., De Falco, G., Fantini, M., Fontolan, G., Furlani, S., Gaeta, M.G., Leoni, G., Lo Presti, V., Mastronuzzi, G.A., Pillon, S., Ricchi, A., Stocchi, P., **Samaras, A.G.**, Scicchitano, G. and Carniel, S. (2019). Integrating multidisciplinary instruments for assessing coastal vulnerability to erosion and sea level rise: lessons and challenges from the Adriatic Sea, Italy. *Journal of Coastal Conservation*, 23 (1), pp.19-37, [DOI](#).
- [J.15] Karambas, Th.V. and **Samaras, A.G.** (2017). An integrated numerical model for the design of coastal protection structures. *Journal of Marine Science and Engineering*, 5 (4), 50, [DOI](#).
- [J.14] Gaeta, M.G., **Samaras, A.G.**, Federico, I., Archetti, R., Maicu, F. and Lorenzetti, G. (2016). A coupled wave –3-D hydrodynamics model of the Taranto Sea (Italy): a multiple-nesting approach. *Natural Hazards and Earth System Sciences*, 16 (9), pp.2071-2083, [DOI](#).
- [J.13] **Samaras, A.G.**, Gaeta, M.G., Miquel, A.M. and Archetti, R. (2016). High resolution wave and hydrodynamics modelling in coastal areas: operational applications for coastal planning, decision support and assessment. *Natural Hazards and Earth System Sciences*, 16 (6), pp.1499-1518, [DOI](#).
- [J.12] **Samaras, A.G.**, Karambas, Th.V. and Archetti R. (2015). Simulation of tsunami generation, propagation and coastal inundation in the Eastern Mediterranean. *Ocean Science*, 11 (4), pp.643-655, [DOI](#).
Selected by the European Geosciences Union (EGU) for the issue of a press release that appeared on the front page of the EGU website ([Link](#)).
- [J.11] Zafeirakou, A, Palantzas, G., **Samaras, A.** and Koutitas, C. (2015). Oil spill modeling aiming at the protection of ports and coastal areas. *Environmental Processes*, 2 (1), pp.41-53, [DOI](#).

- [J.10] Sepp Neves, A.A., Pinardi, N., Martins, F., Janeiro, J., **Samaras, A.**, Zodiatis, G. and De Dominicis, M. (2015). Towards a common oil spill risk assessment framework - Adapting ISO 31000 and addressing uncertainties. *Journal of Environmental Management*, 159, pp.158-168, [DOI](#).
- [J.09] **Samaras, A.G.**, Zafeirakou, A., Palantzas, G. and Koutitas, C. (2014). Advances in operational oil spill modelling: Implications for the protection of the Black Sea Basin. *Scientific Annals of the Danube Delta Institute*, 20, pp.129-138, [DOI](#).
- [J.08] **Samaras, A.G.** and Koutitas, C.G. (2014). Comparison of three longshore sediment transport rate formulae in shoreline evolution modeling near stream mouths. *Ocean Engineering*, 92, pp.255-266, [DOI](#).
- [J.07] Karambas, Th.V. and **Samaras, A.G.** (2014). Soft shore protection methods: The use of advanced numerical models in the evaluation of beach nourishment. *Ocean Engineering*, 92, pp.129-136, [DOI](#).
- [J.06] **Samaras, A.G.**, De Dominicis, M., Archetti, R., Lamberti, A. and Pinardi, N. (2014). Towards improving the representation of beaching in oil spill models: A case study. *Marine Pollution Bulletin*, 88 (1-2), pp.91-101, [DOI](#).
- [J.05] **Samaras, A.G.** and Koutitas, C.G. (2014). Modeling the impact of climate change on sediment transport and morphology in coupled watershed-coast systems: A case study using an integrated approach. *International Journal of Sediment Research*, 29 (3), pp.304-315, [DOI](#).
- Ranked 5th in the "Top 25 Hottest Articles" of the Journal (Subject area: Earth and Planetary Sciences) for the period from October to December 2014 (PDF), and 13th from January to March 2015 (PDF).*
- [J.04] **Samaras, A.G.** and Koutitas, C.G. (2014). The impact of watershed management on coastal morphology: A case study using an integrated approach and numerical modeling. *Geomorphology*, 211, pp.52-63, [DOI](#).
- Ranked 13th in the "Top 25 Hottest Articles" of the Journal (Subject area: Earth and Planetary Sciences) for the period from January to March 2014 (PDF).*
- [J.03] **Samaras, A.G.** and Koutitas, C.G. (2012). An integrated approach to quantify the impact of watershed management on coastal morphology. *Ocean and Coastal Management*, 69, pp.68-77, [DOI](#).
- [J.02] **Samaras, A.G.** and Koutitas, C.G. (2009). The impact of catchment management on coastal morphology. The case of Fourka in Greece. *Journal of Coastal Research*, 56 (SI), pp.1686-1690.
- [J.01] **Samaras, A.** and Koutitas, C. (2008). Modelling the impact on coastal morphology of the water management in transboundary river basins. The case of River Nestos. *Management of Environmental Quality*, 19 (4), pp.455-466, [DOI](#).
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- [J.] **Samaras, A.G.** and Karambas, Th.V. (). Modelling the impact of climate change on coastal flooding and coastal structures design. *Journal of Marine Science and Engineering*, in preparation.

PUBLICATIONS IN PEER-REVIEWED CONFERENCES



- [C.37] **Samaras, A.G.** and Karambas, Th.V. (2019). Numerical simulation of ship-borne waves using a 2DH post-Boussinesq model. *1st International Conference "Design and Management of Port, Coastal and Offshore Works", Athens, Greece, May 8-11, 2019*, Volume II, pp.293-297.
- [C.36] **Samaras, A.G.** and Karambas, Th.V. (2018). Applications of a 2DH post-Boussinesq model: generation and propagation of tsunami and ship-borne waves. *36th International Conference on Coastal Engineering, Baltimore, Maryland, USA, July 30 - August 3, 2018*, ID:1338.
- [C.35] **Samaras, A.G.**, Karambas, Th.V. and Koutitas, C.G. (2018). On the integrated modelling of Watershed-Coast Systems: Considerations for morphological modelling under a changing climate. *Protection and Restoration of the Environment XIV, Thessaloniki, Greece, July 3-6, 2018*, pp.501-510. (ISBN: 978-960-99922-4-4; [Link](#))
- [C.34] **Samaras, A.G.** and Karambas, Th.V. (2018). Modelling the impact of climate change on coastal flooding with the use of a 2DH Boussinesq model. *Protection and Restoration of the Environment XIV, Thessaloniki, Greece, July 3-6, 2018*, pp.492-500. (ISBN: 978-960-99922-4-4; [Link](#))

- [C.33] **Samaras, A.G.** and Karambas, Th.V. (2017). A new advanced tsunami model: presentation, validation and role in tsunami preparedness civil protection. *Safe Athens 2017 Conference, Athens, Greece, June 28-30, 2017*. (Abstract; in Greek; [Link](#))
- [C.32] Karambas, Th.V. and **Samaras, A.G.** (2017). An integrated mathematical model for the design of coastal protection structures. *Coastal Dynamics 2017 Conference, Helsingør, Denmark, June 12-16, 2017*, pp.1324-1335. ([Link](#))
- [C.31] Archetti, R., **Samaras, A.G.**, Gaeta, M.G., Bonaldo, D. and Carniel, S. (2017). High resolution numerical simulations at the Reno river mouth (Italy): model set up and simulations under climate change scenarios. *EGU General Assembly 2017, Vienna, Austria, April 23-28, 2017*, OS2.3 / EGU2017-2595. (Abstract; [Link](#))
- [C.30] Bonaldo, D., Antonioli, F., Anzidei, M., Archetti, R., Davolio, S., De Falco, G., Fontolan, G., Furlani, S., Gaeta, M.G., Lambeck, K., Leoni, G., Mastronuzzi, G., Stocchi, P., **Samaras, A.**, Von Hardenberg, J. and Carniel, S. (2017). Drawing together approaches and experiences in the Italian coastal research: the new challenges of RITMARE Project. *EGU General Assembly 2017, Vienna, Austria, April 23-28, 2017*, GM12.6 / EGU2017-16122. (Abstract; [Link](#))
- [C.29] **Samaras, A.G.**, Gaeta, M.G., Miquel, A.M. and Archetti, R. (2016). The use of high resolution coastal modelling in operational applications. *Proc. of the XXXV National Conference on Hydraulics and Hydraulic Structures "IDRA 16", Bologna, Italy, September 14-16, 2016*, pp.329-332. (ISBN: 9788898010400; [DOI](#))
- [C.28] Gaeta, M.G., **Samaras, A.G.**, Federico, I. and Archetti, R. (2016). A multiple-nesting approach for a coupled wave – 3D hydrodynamics model of the Taranto Sea. *Proc. of the XXXV National Conference on Hydraulics and Hydraulic Structures "IDRA 16", Bologna, Italy, September 14-16, 2016*, pp.301-304. (ISBN: 9788898010400; [DOI](#))
- [C.27] Archetti, R., **Samaras, A.G.**, Gaeta, M.G. and Lamberti, A. (2016). Numerical instruments to investigate marine pollution. *Proc. of the XXXV National Conference on Hydraulics and Hydraulic Structures "IDRA 16", Bologna, Italy, September 14-16, 2016*, pp.341-344. (ISBN: 9788898010400; [DOI](#))
- [C.26] Gaeta, M.G., **Samaras, A.G.**, Archetti, R. and Lamberti, A. (2015). Numerical investigation of thermal discharge to coastal areas using TELEMAC-3D: A case study for South Italy. *E-Proc. of the 36th IAHR World Congress, Delft-The Hague, the Netherlands, June 28 – July 3, 2015*, pp.1074-1078. (ISBN: 978-90-824846-0-1)
- [C.25] Arvanitidou, S., Zafeirakou, A., Palantzas, G., **Samaras, A.** and Koutitas, C. (2015). Optimization of oil spill combating stations along coastal basins. *Proc. of the 5th International Conference on Environmental Management, Engineering, Planning and Economics and SECOTOX Conference, Mykonos island, Greece, June 14-18, 2015*, pp.774-781. (ISBN: 978-960-6865-87-9)
- [C.24] Palantzas G., Zafeirakou A., **Samaras A.**, Karambas T. and Koutitas C. (2015). The use of oil spill trajectory models in oil pollution incidents response. *Proc. of the 11th Panhellenic Symposium of Oceanography and Fisheries, Mytilene, Greece, May 13-17, 2015*, pp.937-940. (ISBN: 978-960-9798-08-2; in English and Greek; [Link](#))
- [C.23] Sepp-Neves, A.A., Pinaridi, N., Martins, F., **Samaras, A.**, Giacomelli, L. and Janeiro, J. (2015). IT – OSRA: applying super-ensemble simulations to estimate the oil spill hazard associated to operational and accidental oil spills. *"Marine Environmental Monitoring, Modelling and Prediction" - The 47th International Liege colloquium, Liège, Belgium, May 4-8, 2015*, ILC2015-055. (Abstract; [Link](#))
- [C.22] Gaeta, M.G., **Samaras, A.G.** and Archetti, R. (2015). Wave and hydrodynamics modelling in coastal areas with open-source solver: influence of the coupling mechanisms. *EGU General Assembly 2015, Vienna, Austria, April 12-17, 2015*, OS2.4 / EGU2015-12434. (Abstract; [Link](#))
- [C.21] Bressan, L., Antonini, A., Gaeta, M.G., Guerrero, M., Miani, M., Petruzzelli, V. and **Samaras, A.** (2015). Boulder transport by tsunamis: A laboratory experiment on incipient motion. *EGU General Assembly 2015, Vienna, Austria, April 12-17, 2015*, NH5.1 / EGU2015-935. (Abstract; [Link](#))

- [C.20] **Samaras, A.G.**, Zafeirakou, A., Palantzas, G. and Koutitas, C. (2014). Advances in operational oil spill modelling: Implications for the protection of the Black Sea Basin. *In: Török, L. (ed.), Deltas and Wetlands (Book of abstracts), Vol.2, Proc. of the BSB Net-Eco International Conference: "Environmental aspects and available scientific tools for Black Sea Basin protection", Tulcea, Romania, September 15-17, 2014*, p.44. (ISSN: 2344-3766; Abstract; [DOI](#))
- [C.19] Archetti R., **Samaras, A.**, Antonini, A., Gaeta, M.G., Lamberti, A., Guerrero, M., Masina, M., Moreno Miquel, A., Petruzzelli, V. and Pinardi, N. (2014). Real-time high-resolution forecasts of the sea state for the cognition of the marine environment. *Proc. of the XXXIV National Conference on Hydraulics and Hydraulic Structures "IDRA 14", Bari, Italy, September 8-10, 2014*, pp.433-434. (ISBN: 978-88-904561-8-3; Extended Abstract; in Italian; [Link](#))
- [C.18] Gaeta, M.G., Archetti, A. and **Samaras, A.** (2014). Study of the wave agitation inside the Port of Bari (Italy) using the open-source code TELEMAC. *Proc. of the XXXIV National Conference on Hydraulics and Hydraulic Structures "IDRA 14", Bari, Italy, September 8-10, 2014*, pp.759-760. (ISBN: 978-88-904561-8-3; Extended Abstract; in Italian; [Link](#))
- [C.17] Zafeirakou, A., Palantzas, G., **Samaras, A.** and Koutitas, C. (2014). The use of oil spill simulation in developing and applying oil pollution contingency plans in ports and coastal areas. *Proc. of the 12th International Conference on Protection and Restoration of the Environment "PRE XII", Skiathos island, Greece, June 29 - July 3, 2014*, p.91. (ISBN: 978-960-88490-5-1)
- [C.16] **Samaras, A.G.**, Lamberti, A. and Archetti, R. (2014). Towards improving the simulation of beaching in oil spill models. *Proc. of the 7th International Symposium on Environmental Hydraulics "ISEH VII", Singapore, January 7-9, 2014*, pp.260-263. (ISBN: 978-981-07-8047-0)
- [C.15] **Samaras, A.G.**, Vacchi, M., Archetti, R. and Lamberti, A. (2013). Wave and hydrodynamics modelling in coastal areas with TELEMAC and MIKE21. *In: Kopmann, L. and Gnoll, A. (eds.), XXth TELEMAC-MASCARET User Conference, Proc. of the XXth TELEMAC-MASCARET User Conference, Karlsruhe, Germany, October 16-18, 2013*, pp.59-63. (ISBN: 978-3-939230-07-6; [Link](#))
- [C.14] **Samaras, A.G.** and Koutitas, C.G. (2012). Climate change and its impact on sediment transport and morphology in the watershed-coast entity. *Proc. of the International Conference Protection and Restoration of the Environment XI, Thessaloniki, Greece, July 3-6, 2012*, pp.2547-2556. (ISBN: 978-960-99922-1-3)
First author awarded with the [Young Scientist Award](#) from the Organizing Committee of the Conference for this work ([PDF](#)).
- [C.13] Karambas, Th.V., **Samaras, A.** and Koutitas, C. (2012). Environmentally friendly shore protection methods: use of advanced numerical models in beach nourishment projects. *Proc. of the International Conference Protection and Restoration of the Environment XI, Thessaloniki, Greece, July 3-6, 2012*, pp.768-777. (ISBN: 978-960-99922-1-3)
- [C.12] Koutitas, C.G. and **Samaras, A.G.** (2010). The importance of watershed sediment modeling to coastal morphology. A case study. *In: Christodoulou, G.C. and Stamou, A.I. (eds.), Environmental Hydraulics, Proc. of the 6th International Symposium on Environmental Hydraulics, Athens, Greece, June 23-25, 2010*, pp.535-540. (ISBN: 978-0-415-58475-3)
- [C.11] **Samaras, A.G.** and Koutitas, C.G. (2010). Modeling the impact of watershed processes on coastal erosion. *In: Christodoulou, G.C. and Stamou, A.I. (eds.), Environmental Hydraulics, Proc. of the 6th International Symposium on Environmental Hydraulics, Athens, Greece, June 23-25, 2010*, pp.529-534. (ISBN: 978-0-415-58475-3)
- [C.10] **Samaras, A.** and Koutitas, C. (2009). The impact of land use change on coastal erosion. The case of Fourka in Chalkidiki. *Proc. of the Joint Conference of the HHA and the HCWRM, Volos, Greece, May 27-30, 2009*, pp.945-952. (ISBN: 978-960-6865-07-7; in Greek; [Link](#))
- [C.09] Samaras, G., Pechlivanidis, G., Leousidis, A., **Samaras, A.** and Dermisis, V. (2009). The influence of the measurement rate using hot-film anemometers on the arrested wedge characteristics. *Proc. of the Joint Conference of the HHA and the HCWRM, Volos, Greece, May 27-30, 2009*, pp.555-562. (ISBN: 978-960-6865-07-7; in Greek; [Link](#))
- [C.08] **Samaras, A.** and Prinos, P. (2008). Simulation of the coastal wave climate using the SWAN model. *Proc. of the 4th National Conference "Management and Improvement of Coastal Zones", Mytilene, Lesvos, Greece, September 23-27, 2008*, pp.267-275. (in Greek)

- [C.07] **Samaras, A.**, Georgoulas, A., Valsamidis, A., Koutitas, C., Xeidakis, G. and Kotsovinos, N. (2008). Studying the human-induced impacts on coastal morphology. The Case of River Nestos. *Proc. of the 4th National Conference "Management and Improvement of Coastal Zones"*, Mytilene, Lesvos, Greece, September 23-27, 2008, pp.327-336. (in Greek)
- [C.06] Galiatsatou, P., **Samaras, A.** and Prinos, P. (2008). Extreme events and risk of coastal flooding. *Proc. of the 4th National Conference "Management and Improvement of Coastal Zones"*, Mytilene, Lesvos, Greece, September 23-27, 2008, pp.23-32. (in Greek)
- [C.05] Valsamidis, A., **Samaras, A.**, Georgoulas, A., Koutitas, C. and Kotsovinos, N. (2008). Prediction of shoreline change in the wider area of Alexandroupolis port, forty years from today, with the use of CEDAS software. *Proc. of the 4th National Conference "Management and Improvement of Coastal Zones"*, Mytilene, Lesvos, Greece, September 23-27, 2008, pp.373-382. (in Greek)
- [C.04] Samaras, G., **Samaras, A.** and Dermissis, V. (2007). Bed roughness' influence on the mean velocity distribution and turbulent interfacial stresses in stratified flows. *Proc. of the SECOTOX Conference and the Int. Conference on Environmental Management, Engineering, Planning and Economics, Skiathos, Greece, June 24-28, 2007*, pp.1009-1015. (ISBN: 978-960-89090-8-3)
- [C.03] **Samaras, A.** and Koutitas, C. (2007). Modelling the impact on coastal morphology of the water management in transboundary river basins. The case of River Nestos. *Proc. of the 4th Dubrovnik Conference on Sustainable Development of Energy, Water and Environment Systems, Dubrovnik, Croatia, June 4-8, 2007*. (ISBN: 978-953-6313-87-7)
- [C.02] Koutitas C. and **Samaras, A.** (2006). Hydrodynamic and oil spill transport computational models in the Thessaloniki Port area. *Proc. of the 8th Panhellenic Symposium of Oceanography and Fisheries, Thessaloniki, Greece, June 4-8, 2006*. (in Greek; [Link](#))
- [C.01] Koutitas, C., Palantzas, G. and **Samaras, A.** (2005). The use of numerical simulation of oil spills in developing a chemical pollution contingency plan in ports. The case of the port of Thessaloniki, Greece. *Proc. of the 13th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Thessaloniki, Greece, October 8-12, 2005*. (ISBN: 960-88839-0-3)

TECHNICAL PUBLICATIONS & REPORTS



- [TR.10] **Samaras, A.G.**, Zafeirakou, A., Palantzas, G. and Koutitas, C. (2014). Application of adapted oil spill dispersion forecasting model to the area of the Azov Sea. Technical Report, BSB Net-Eco Project, p.27. (ISBN: 978-606-93721-5-9; [Link](#))
- [TR.09] Zafeirakou, A., Palantzas, G., **Samaras, A.** and Koutitas, C. (2014). Adaptation of the oil spill forecasting model to the area of the Northern Aegean Sea. Technical Report, BSB Net-Eco Project, p.19. (ISBN: 978-606-93721-3-5; [DOI](#))
- [TR.08] Zafeirakou, A., Palantzas, G., **Samaras, A.** and Koutitas, C. (2013). Update and improvement of the operational code of a 3-D oil slick transport and dispersion model. Technical Report, BSB Net-Eco Project, p.17. (ISBN: 978-606-93721-2-8; [DOI](#))
- [TR.07] Ministry of Environment, Physical Planning and Public Works & Organization of Planning and Environmental Protection of Thessaloniki (2008). Indicators for the evaluation of the environment and sustainability in the Greater Thessaloniki area. Moussiopoulos, N. and Nikolaou, K. (eds.), Organization of Planning and Environmental Protection of Thessaloniki & Aristotle University of Thessaloniki, p.209. (ISBN: 978-960-98642-0-6; [Link](#))
- [TR.06] Alonso, B. et al. (2008). Management of sand deposits collected by coastal and river infrastructure: Recovery of sediment transport (GESA subproject). *In: Strategic management of beach protection for sustainable development of Mediterranean coastal zones, BEACHMED-e: Regional Framework Operation*, p.150. ([Link](#))
- [TR.05] Bobbio, R. et al. (2008). Evaluate risks and establish integrated plans for Mediterranean coastlines: Analysis and management process for coastal zones: risk, impact mitigation and area planning assessment methods (MEDPLAN subproject). *In: Strategic management of beach protection for sustainable development of Mediterranean coastal zones, BEACHMED -e: Regional Framework Operation*, p.150. ([Link](#))

- [TR.04] Kotsovinos, N., Andreadaki, M., **Samaras, A.**, Valsamidis, A., Georgoulas, A., Hrissanthou, V., Angelidis, P. and Koutitas, C. (2008). Management of sand deposits collected by coastal and river infrastructure – Recovery of sediment transport (3.3-GESA). *In: BEACHMED-e: Strategic management of beach protection measures for the sustainable development of Mediterranean coastal areas, Prefecture of East Macedonia and Thrace*, p.120. (in Greek)
- [TR.03] Prinos, P., Galiatsatou, P. and **Samaras, A.** (2008). Evaluate risks and establish integrated plans for coastal zones (3.1-MEDPLAN). *In: BEACHMED-e: Strategic management of beach protection measures for the sustainable development of Mediterranean coastal areas, Prefecture of East Macedonia and Thrace*, p.120. (in Greek)
- [TR.02] Sylaios, G., Prinos, P. and Samaras, A. (2008). Characterization of the hydrodynamic conditions and wave climate for the analysis of their impact on coastal erosion and the understanding of the dynamics of *Poseidonia Oceanica* meadows (2.2-NAUSICAA). *In: BEACHMED-e: Strategic management of beach protection measures for the sustainable development of Mediterranean coastal areas, Prefecture of East Macedonia and Thrace*, p.120. (in Greek)
- [TR.01] Sylaios, G., Prinos, P. and **Samaras, A.** (2007). Preliminary Analysis, Wave and Hydrodynamic Data, Mathematical Simulations. *In: BEACHMED-e Program (Long Report), Sub-project 2.2 "NAUSICAA: Characterization of nearshore hydro-meteorological conditions, analysis of littoral risks, behaviour of coastal defense structures and *Posidonia Oceanica* dynamics"*, p.281. ([Link](#))

SOFTWARE DOCUMENTATION & USER MANUALS



- [SM.04] **Samaras, A.G.** (2015). SLICK_F – Oil Spill Model. User manual for Version 1.0, p.28 ([PDF](#))
- [SM.03] **Samaras, A.G.** (2010). Chapter 4: The PELNCON-M software. *In: Doctoral Dissertation of Achilleas G. Samaras*, pp. 149-184. (in Greek; [D.011](#))
- [SM.02] **Samaras, A.G.** (2010). User manual of the educational software PELNCON-M_EDU_G / Version 1.0, p. 16. (in Greek; [PDF](#))
- [SM.01] **Samaras, A.G.** (2010). Theoretical documentation of the educational software PELNCON-M_EDU_G / Version 1.0, p. 14. (in Greek; [PDF](#))

OTHER PUBLICATIONS



- [OP.02] **Samaras, A.G.** and Karambas T.V. (2020). A new model for cross-shore surf and swash zone morphology evolution induced by nonlinear waves. *Virtual International Conference "Adapting to the Coastal Zone Challenges and Risks: Innovative Approaches and Solutions for Local and Regional Authorities in the Balkans-Mediterranean Region", June 18-19, 2020.*
- [OP.01] Bonaldo, D., Antonioli, F., Archetti, R., Bezzi, A., Correggiari, A., Davolio, S., De Falco, G., Fantini, M., Fontolan, G., Furlani, S., Gaeta, M.G., Leoni, G., Lo Presti, V., Mastronuzzi, G.A., Pillon, S., Ricchi, A., Stocchi, P., **Samaras, A.G.**, Scicchitano, G. and Carniel, S. (2018). Multidisciplinary assessment and prediction tools addressing coastal vulnerability to erosion and sea level rise. Lessons learnt from the RITMARE Project. *1st National Workshop on Climate Change and Sea Level Rise in the Mediterranean Sea, Roma, Italy, July 5-6, 2018.* (Abstract; [Link](#))

RESEARCH ACTIVITY

RESEARCH EXPERIENCE •• EMPLOYMENT



- 07/2020 – Assistant Professor
present Department of Civil Engineering, Democritus University of Thrace, Greece.
-
- 01/2017 – Research Associate
07/2020 Department of Civil Engineering, Aristotle University of Thessaloniki, Greece.
- 11/2012 – Research Fellow
12/2016 Interdepartmental Centre for Industrial Research in Building and Construction, University of Bologna, Italy.
- 12/2012 – External Research Associate
11/2015 Department of Civil and Infrastructure Engineering, Technological Educational Institute of Thessaloniki, Greece.
- 01/2014 – External Research Associate
07/2015 Department of Civil Engineering, Aristotle University of Thessaloniki, Greece.
- 03/2005 – Research Associate
10/2012 Department of Civil Engineering, Aristotle University of Thessaloniki, Greece.
- 11/2011 – External Research Associate
01/2012 Department of Marine Sciences, University of the Aegean, Greece.
- 11/2006 – External Research Associate
04/2008 Fisheries Research Institute, National Agricultural Research Foundation, Greece.
- 06/2006 – External Research Associate
04/2008 Department of Civil Engineering, Democritus University of Thrace, Greece.

RESEARCH EXPERIENCE •• PROJECTS



- [RP.09] RITMARE – The Italian Research for the Sea (Phase II: Coastal vulnerability to erosion & sea level rise)
Period: 2016-2017
- [RP.08] Optimal design of hydraulic communication of a lateral basin to central flow. Application to small harbours and fishponds.
Period: 2012-2015
- [RP.07] BSB Net-Eco – Research networking for the environmental monitoring and mitigation of adverse ecological effects in the Black Sea Basin.
Period: 2014-2015
- [RP.06] TESSA – Development of Technologies for the “Situational Sea Awareness”.
Period: 2012-2015
- [RP.05] “Virtual Labs” – Implementation of computer technology in Civil Engineering Education.
Period: 2010
- [RP.04] Indicators for the evaluation of the environment and sustainability in the Greater Thessaloniki area.
Period: 2006-2008
- [RP.03] Regional Framework Operation BEACHMED-e, Subprogram 3.3: Management of sand deposits collected by coastal and river infrastructure. Recovery of sediment transport – “GESA”.
Period: 2006-2008

- [RP.02] Regional Framework Operation BEACHMED-e, Subprogram 2.2: Characterisation of hydrometeorological conditions of coastlines, analysis of risks to coastlines, behaviour of protective measures and dynamics of *Posidonia Oceanica* grasslands – “NAUSICAA”.
Period: 2006-2008
- [RP.01] Regional Framework Operation BEACHMED-e, Subprogram 3.1: Evaluate risks and establish integrated plans for Mediterranean coastlines. Analysis and management process for coastal zones: risk, impact mitigation and area planning assessment methods – “MEDPLAN”.
Period: 2006-2008

SCIENTIFIC EDITORIAL DUTIES



Editorial Boards

- [Journal of Marine Science and Engineering](#) (Publisher: MDPI) | Coastal Engineering Section ([Link](#))
- [Acta Geophysica](#) (Publisher: Springer) | Hydrology Section ([Link](#))

Special Issues | Books | Conference Proceedings

- 2018 Special Issue “Modelling of Harbour and Coastal Structures” in the [Journal of Marine Science and Engineering](#) (Publisher: MDPI).
Guest Editors: Prof. Theophanis V. Karambas and **Dr. Achilleas G. Samaras**. ([Link](#); [PDF](#))
- 2016 Proceedings of the XXXV National Conference on Hydraulics and Hydraulic Structures "IDRA 16". Castellarin, A., Archetti, R., Baratti, E., Cappelletti, M., Carisi, F., Domeneghetti, A., Gaeta, M.G., Paci, A., Persiano, S., Pugliese, A. and **Samaras, A.G.** (eds.). Department of Civil, Chemical, Environmental and Materials Engineering, University of Bologna, p.1499. (ISBN: 9788898010400; in Italian; [DOI](#))

REVIEWING DUTIES IN JOURNALS/CONFERENCES & RESEARCH PROJECTS



Journals

[Publons Reviewer Profile](#)

- | | |
|--|--|
| ○ Journal of Marine Systems (Link) | <i>Elsevier</i> |
| ○ Ocean Engineering (Link) | <i>Elsevier</i> |
| ○ Geomorphology (Link) | <i>Elsevier</i> |
| ○ Progress in Oceanography (Link) | <i>Elsevier</i> |
| ○ Maritime Engineering (Link) | <i>Institution of Civil Engineers – ICE</i> |
| ○ Natural Hazards and Earth System Sciences (Link) | <i>European Geosciences Union</i> |
| ○ Ocean and Coastal Management (Link) | <i>Elsevier</i> |
| ○ Marine Pollution Bulletin (Link) | <i>Elsevier</i> |
| ○ Journal of Coastal Conservation (Link) | <i>Springer</i> |
| ○ Journal of Coastal Research (Link) | <i>Coastal Education & Research Foundation</i> |
| ○ Hydrology and Earth System Sciences (Link) | <i>European Geosciences Union</i> |
| ○ Water (Link) | <i>MDPI</i> |
| ○ Journal of Marine Science and Engineering (Link) | <i>MDPI</i> |
| ○ Geosciences (Link) | <i>MDPI</i> |
| ○ Mediterranean Marine Science (Link) | <i>National Documentation Centre (Greece)</i> |
| ○ Energies (Link) | <i>MDPI</i> |
| ○ Sustainability (Link) | <i>MDPI</i> |
| ○ Applied Sciences (Link) | <i>MDPI</i> |
| ○ China Ocean Engineering (Link) | <i>Springer</i> |
| ○ Acta Geophysica (Link) | <i>Springer</i> |
| ○ Environmental Processes (Link) | <i>Springer</i> |

- | | |
|--|---|
| ○ Frontiers in Climate (Link) | <i>Frontiers</i> |
| ○ Journal of Integrative Environmental Sciences (Link) | <i>Taylor & Francis</i> |
| ○ European Water (Link) | <i>European Water Resources Association</i> |
| ○ Landscape and Urban Planning (Link) | <i>Elsevier</i> |
| ○ International Journal of Geo-Information (Link) | <i>MDPI</i> |
| ○ Informatics (Link) | <i>MDPI</i> |
| ○ Italian J. of Engineering Geology & Environment (Link) | <i>La Sapienza Publishing House</i> |

Research Projects

- External Reviewer for proposals submitted to the 2017 Regular Competition of the Chilean National Fund for Scientific and Technological Development - FONDECYT ([PDF](#)).

Conferences

- 30th International Offshore and Polar Engineering Conference, Shanghai, China, June 14-19, 2020.
- 29th International Offshore and Polar Engineering Conference, Hawaii, USA, June 16-21, 2019.
- Protection and Restoration of the Environment XIV, Thessaloniki, Greece, July 3-6, 2018.
- 28th International Offshore and Polar Engineering Conference, Sapporo, Japan, June 10-15, 2018.
- 37th IAHR World Congress, Kuala Lumpur, Malaysia, August 13-18, 2017.
**Invited Technical Reviewer for Theme 4: Coastal, Estuaries and Lakes Management.*
- 27th International Offshore and Polar Engineering Conference, San Francisco, USA, June 25-30, 2017.
- 3rd HHA, HCWRM and HWA Joint National Conference, Athens, Greece, December 10-12, 2015.
- 25th International Offshore and Polar Engineering Conference, Hawaii, USA, June 21-26, 2015.
- Protection and Restoration of the Environment XII, Skiathos, Greece, June 29–July 3, 2014.
- 24th International Offshore and Polar Engineering Conference, Busan, Korea, June 15-20, 2014.
- 23rd International Offshore and Polar Engineering Conference, Anchorage, USA, June 30–July 5, 2013.
- Protection and Restoration of the Environment XI, Thessaloniki, Greece, July 3-6, 2012.
- 22nd International Offshore and Polar Engineering Conference, Rhodes, Greece, June 17-22, 2012.

SCIENTIFIC COMMITTEES



- 2014 Member of the Scientific Committee, BSB Net-Eco International Conference: “Environmental aspects and available scientific tools for Black Sea Basin protection - Deltas and Wetlands”, September 15-17, Tulcea, Romania.

PROGRAMMING – SOFTWARE DEVELOPMENT / USE



Programming Languages	MATLAB* FORTRAN BASIC VISUAL BASIC*	<i>*experience in developing Graphical User Interfaces</i>
Open-Source Software Development	TELEMAC-MASCARET integrated suite of solvers: MASCARET, TOMAWAC, ARTEMIS, TELEMAC-2D, TELEMAC-3D, SISYPHE (Link) Modification of the source codes of models MASCARET, TOMAWAC, ARTEMIS, TELEMAC-2D, TELEMAC-3D, and SISYPHE, in order to perform specialized simulations of wave, hydrodynamic and morphodynamic processes in the marine and coastal environment. <i>Applications of the modified versions of the above models are presented in publications [1.13], [1.14], [1.16], [1.17], [1.18] (in Journals) and [C.15], [C.18], [C.19], [C.22], [C.26], [C.28],</i>	

[\[C.29\]](#), [\[C.31\]](#) (in Conferences).

MEDSLIK-II – Oil Spill Modeling

Modification of the source code of model MEDSLIK-II, in order to improve the representation of nearshore coastal processes (wave processes, oil spill beaching).

Applications of the modified version of the model are presented in publications [\[J.06\]](#), [\[J.10\]](#) (in Journals) και [\[C.16\]](#), [\[C.23\]](#), [\[C.27\]](#) (in Conferences).

Software
Development

PELNCON-M – Shoreline Evolution Software

Development of an integrated software (source code and Graphical User Interface) for the simulation of shoreline evolution under the effect of waves, coastal structures, beach nourishment projects and sediment input from rivers and natural streams.

Details on the structure and capabilities of the software are presented in Doctoral Dissertation [\[D.01\]](#) (Chapter 4; see also manual [\[SM.03\]](#)) and in journal publication [\[J.08\]](#), while results of its applications are also presented in publications [\[J.03\]](#), [\[J.04\]](#), [\[J.05\]](#) (in Journals) and [\[C.11\]](#), [\[C.12\]](#), [\[C.14\]](#) (in Conferences).

SLICK_F – Oil Spill Modelling

Development of an integrated software (source code and Graphical User Interface) for the simulation of oil spill evolution in the marine environment.

Details on the structure and capabilities of the software are presented in manual [\[SM.04\]](#), while its theoretical documentation and applications' results are presented in publications [\[J.09\]](#), [\[J.11\]](#) (in Journals) and [\[C.20\]](#), [\[C.24\]](#) (in Conferences).

WAVE_SP, WAVE_L, WAVE_BQ, WICIR and **SEDTR**

Collaboration with Prof. Theophanis V. Karambas on the evolution of the models:

- WAVE_SP, for the simulation of wave propagation in large-scale coastal areas.
- WAVE_L, for the simulation of wave propagation towards the shore, wave transformation due to the presence of structures and wave agitation in harbours.
- WAVE_BQ, for the simulation of wave propagation towards the shore, wave transformation due to the presence of structures and wave agitation in harbours, based on the higher-order Boussinesq equations and with a series of additional capabilities compared to WAVE_L.
- WICIR, for the simulation of nearshore wave-induced 2D-hydrodynamics.
- SEDTR, for the simulation of sediment transport and bed morphology evolution in coastal areas.

Applications of the above models are presented in publications [\[J.07\]](#), [\[J.15\]](#), [\[J.20\]](#) (in Journals) and [\[C.13\]](#), [\[C.32\]](#), [\[C.34\]](#), [\[C.36\]](#), [\[C.37\]](#) (in Conferences).

PELNCON-M_EDU_G – Shoreline Evolution Around Groins

Development of an integrated software (source code and Graphical User Interface) for the simulation of shoreline evolution in the vicinity of a groin under the effect of waves (educational version of the PELNCON-M software).

Details on the structure and capabilities of the software are presented in the software's Theoretical Documentation [\[SM.01\]](#) and User Manual [\[SM.02\]](#).

Specialized
Software
Use

SWAT – Soil and Water Assessment Tool

D-Water Quality (Delft3D suite): DELWAQ

CEDAS – Coastal Eng. Design and Analysis System: SBEACH, RCPWAVE, STWAVE, GENESIS

SWAN – Simulating Waves Nearshore

HEC-RAS – Hydrologic Engineering Center's River Analysis System

TEACHING EXPERIENCE

TEACHING



- 2020- Assistant Professor
Department of Civil Engineering, Democritus University of Thrace
Programme: Undergraduate •• Courses: Harbour Works,
Maritime Hydraulics & Coastal Engineering,
Applications of Harbour Works,
Computational Hydraulics
- 2011-2012 Adjunct Lecturer
Department of Marine Sciences, University of the Aegean
Programme: Undergraduate •• Course: Coastal Engineering
- 2011-2012 Adjunct Lecturer
Department of Marine Sciences, University of the Aegean
Programme: Postgraduate* •• Course: Coastal Engineering & Dynamics
**Interdepartmental Programme "Coastal Zone Management"*
- 2007-2010 Teaching Associate
Dpt. of Civil and Infrastructure Engineering, Technological Educational Institute of Thessaloniki
Programme: Undergraduate •• Course: Harbour Works
- 2007-2010 Teaching Assistant
Department of Civil Engineering, Aristotle University of Thessaloniki
Programme: Undergraduate •• Courses: Coastal Engineering and Harbour Works,
Wave Mechanics

THESES SUPERVISION



- 2012-2013 Co-supervisor
Faculty of Engineering, University of Bologna
Programme: Postgraduate (*Corso di Laurea Magistrale*)
Title: Modelling of the coastal environment with the TELEMAC suite: Application for the Gulf of Taranto, Italy
Student: Matteo Gnoli •• Supervisor: Prof. Renata Archetti
- 2009-2010 Supervisor
Dpt. of Civil and Infrastructure Engineering, Technological Educational Institute of Thessaloniki
Programme: Undergraduate
Title: Sea Bridges: Presentation - Design - Construction
Students: Karafylle Margarita, Koutsopoulou Dimitra
- 2008-2009 Supervisor
Dpt. of Civil and Infrastructure Engineering, Technological Educational Institute of Thessaloniki
Programme: Undergraduate
Title: Design study of a marina on the 1st Pier of the Port of Thessaloniki, Greece
Students: Sengkiergki Maria, Serafeim Aneta, Tikozioglou Domna



INVITED LECTURES

- 2016 Tides and Water Levels.
Guest Lecture for the International M.Sc. (*Corso di Laurea Magistrale*) Students of the School of Engineering and Architecture - University of Bologna, Ravenna, October 7th, 2016.
- 2016 Oil Spills: Pollution - Modelling - Response.
Guest Lecture for the International M.Sc. (*Corso di Laurea Magistrale*) Students of the School of Engineering and Architecture - University of Bologna, Bologna, April 7th, 2016.
- 2016 Tides and Water Levels.
Guest Lecture for the International M.Sc. (*Corso di Laurea Magistrale*) Students of the School of Engineering and Architecture - University of Bologna, Bologna, March 1st, 2016.
- 2015 Tides and Water Levels.
Guest Lecture for the International M.Sc. (*Corso di Laurea Magistrale*) Students of the School of Engineering and Architecture - University of Bologna, Bologna, March 10th, 2015.
- 2015 Oil Spills: Pollution - Modelling - Response.
Guest Lecture for the International M.Sc. (*Corso di Laurea Magistrale*) Students of the School of Engineering and Architecture - University of Bologna, Bologna, March 5th, 2015.
- 2014 Oil Spills: Pollution - Modelling - Response.
Invited Lecture for the Ph.D. and Undergraduate Students of the Department of Civil, Chemical, Environmental and Materials Engineering – University of Bologna, Bologna, April 3rd, 2014.
- 2013 Oil Spills: Pollution - Modelling - Response.
Invited Lecture for the Ph.D. and Undergraduate Students of the Department of Civil, Chemical, Environmental and Materials Engineering – University of Bologna, Bologna, May 7th, 2013.

PROFESSIONAL ENGINEER ACTIVITY

PROFESSIONAL EXPERIENCE •• EMPLOYMENT



- 09/2017 – Civil Engineer
- 05/2020 Executive Unit for Strategic Planning and Investment Programme Management, “Thessaloniki Water Supply & Sewerage Co. S.A. (EYATH S.A.)”, 127 Egnatia Str., 546 34, Thessaloniki, Greece
- 04/2012 – Partner / Consultant Civil Engineer
- 09/2017 “ROI L.P. – Technical Works Design and Studies”, 13 Filikis Etaireias Str, 546 21, Thessaloniki, Greece
- 09/2009 – External Associate / Consultant Civil Engineer
- 09/2017 “ARMONIA L.P. – Engineering Design and Studies Company”, 4 M. Mavrogenous Str., 542 49, Thessaloniki, Greece
- 10/2005 – Freelancer Professional Civil Engineer (2005-2017) &
- 09/2017 Licenced Designer of Harbour and Hydraulic Public Works (2009-2017)

PROFESSIONAL EXPERIENCE •• DESIGN STUDIES OF PUBLIC WORKS



- [PR.04] Control study of the existing suburban water distribution network of Argos Orestikon. (2014-2015)
- [PR.03] Control study of the existing urban water distribution network of Argos Orestikon. (2014-2015)
- [PR.02] Design study of the wastewater network from Palaiochora to the Zervochoria Wastewater Treatment Plant. (2010-2011)
- [PR.01] Design study for the flood protection of Marathousa. (2010-2011)

SPECIAL CONSULTANCY WORK



- [SC.08] Study of coastal erosion phenomena in Kameiros Municipality (Rhodes, Greece) and proposed solutions of the problem. (2011-2012)
- [SC.07] Deepening project of the fishing port of N. Epivates (Thessaloniki, Greece). (2010)
- [SC.06] Scientific consultants on the extension of the 10-28 corridor of the Thessaloniki Intl. Airport. (2008-2009)
- [SC.05] Coastal engineering study at the wider area of the Amfipolis Port entry (Serres, Greece). (2008)
- [SC.04] Scientific consultants on the extension of the 10-28 corridor of the Thessaloniki International Airport. (2007-2008)
- [SC.03] Feasibility study and overall evaluation of suburban sea transport in Thessaloniki. (2007)
- [SC.02] Final solution to the coastal erosion problem in the South Olympus Municipality (Pieria, Greece). (2005)
- [SC.01] Final solution to the coastal erosion problem and harbour upgrading in Paralia Katerinis Municipality (Pieria, Greece). (2005)

OTHER CURRICULUM VITAE INFORMATION

SCIENTIFIC & PROFESSIONAL SOCIETY MEMBERSHIPS



- 2015- European Geosciences Union – EGU
- 2016-2017 Italian Group of Hydraulics (Gruppo Italiano di Idraulica) – GII
- 2009-2017 Licensed Designer of Public Works in categories:
 - (a) Harbour Works (Category No. 11 / Class A)
 - (b) Hydraulic Works Studies (Category No. 12 / Class A)
- 2007- Hellenic Network on Coastal Research – HENCORE
- 2007- Hellenic Hydrotechnical Association
- 2006- Hellenic Society of Civil Engineers
- 2005- Technical Chamber of Greece

BOARDS – OTHER ACTIVITIES



- 2018-2019 Elected Member of the Board of Directors of the Onassis Foundation Scholars' Association. ([Link](#))
- 2018-2019 Coordinator of the Pint of Science Greece Festival for the City of Thessaloniki. ([Link](#))

SCIENCE TALKS



- 05/2018 Talk "Tsunamis in the Greek seas: Are we really in danger?" at the Pint of Science Greece festival, which was held in Thessaloniki from May 14th to the 16th, 2018. (in Greek; [Link](#))
- 04/2018 Talk "Skeletons and Elephants in Libraries" about the secrets and problems of modern scientific research at the Athens Science Festival, which was held in Athens from April 24th to the 29th, 2018. (in Greek; [Link](#); [PDF](#))
- 03/2017 Talk "Greek Seas and Climate Change" in the Cafés Scientifiques section of the Athens Science Festival, which was held in Athens from March 29th to April 2nd, 2017. (in Greek; [PDF](#))

INTERVIEWS



- 04/2018 Interview on science, research and science communication by Reader.gr, in view of my talk "Skeletons & Elephants in Libraries" at the Athens Science Festival. (in Greek; [Link](#))
- 04/2016 Video & written interview on research and the life of a researcher by UNIBO Magazine, as part of the 5x1000 (cinque per mille) Campaign of the University of Bologna for the financial support of research (in Italian; [Link](#)).
- 09/2015 Interview on tsunami risk and hazard mitigation by the Athens - Macedonian News Agency. (in Greek, [Link1](#); [Link2](#))
- 08/2005 Interview on paper [\[J.12\]](#) "Simulation of tsunami generation, propagation and coastal inundation in the Eastern Mediterranean." as part of the press release issued by the European Geosciences Union – EGU. ([Link](#))

LANGUAGE SKILLS

English	Proficient user – Understanding/Reading/Writing Level: CEFR C2
Italian	Independent user – Understanding/Reading/Writing Level: CEFR B2
French	Basic user – Understanding/Reading/Writing Level: CEF A2

COMPUTER SKILLS

Operating Systems	Microsoft Windows •• Linux: Ubuntu, Fedora
Office Applications	Microsoft Office: Word, Excel, Access •• Adobe Acrobat Professional
Technical Design	AutoCAD 2D, 3D
Graphs Production	Golden Software: Grapher, Surfer
GIS Applications	ArcGIS: ArcMAP, ArcCatalog, ArcScene, ArcGlobe •• AutoMAP •• MapInfo Pro
Project Management	Microsoft Project
Structure Analysis	SAP2000
Calculus	Mathcad
Image Processing	Adobe Photoshop