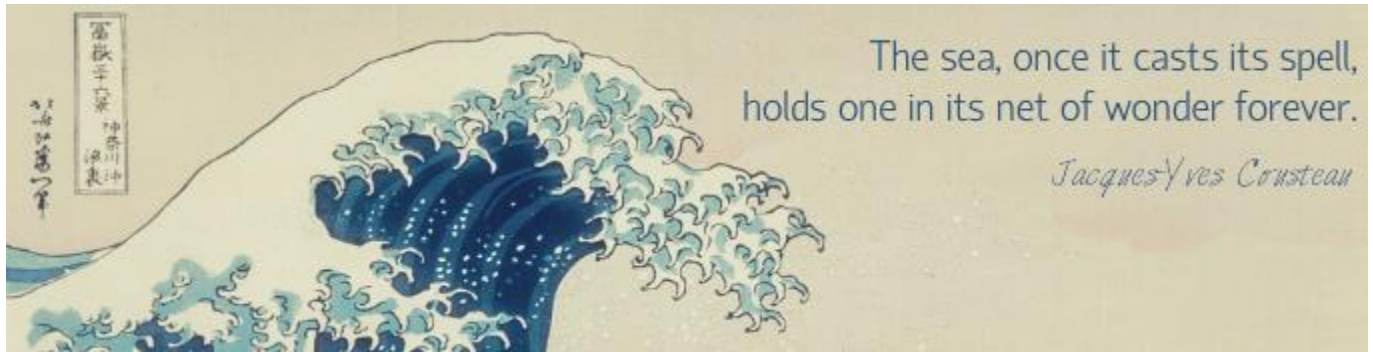




DETAILED CURRICULUM VITAE

ACHILLEAS G. SAMARAS

CIVIL ENGINEER, PH.D.

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DEMOCRITUS UNIVERSITY OF THRACE (GR)

THESSALONIKI/XANTHI (GR) – JANUARY 2025

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PERSONAL INFORMATION

Full Name: Achilleas Samaras
 Father's Name: Grigorios
 Place of birth: [REDACTED]
 Date of birth: [REDACTED]
 Nationality: [REDACTED]
 Academic position: Associate Professor of Maritime Hydraulics, Coastal & Harbour Engineering
 Director of the Laboratory of Coastal & Harbour Works
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 Researcher IDs: [Scopus](#) (24448302500) • [ORCID](#) (0000-0002-0201-3695) • [ResearcherID](#) (O-5302-2014)

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

- 2023 Invitation after evaluation to assume the Role of Coordinating Author for the third World Ocean Assessment (WOA III), Section 5B, Chapter 4: Ocean Hazards of Natural Origin, Division for Ocean Affairs and the Law of the Sea (DOALOS), United Nations ([Link](#)).
- 2023 Selection after evaluation to become Member of the Pool of Experts (PoE) of the United Nations Regular Process for Global Reporting and Assessment of the State of the Marine Environment, including Socioeconomic Aspects (Regular Process), Division for Ocean Affairs and the Law of the Sea (DOALOS), United Nations ([Link](#)).
- 2022 Invitation by the Scientific Committee of the 9th International Conference on Civil Protection & New Technologies – SafeThessaloniki 2022 to deliver a Keynote Lecture at the Conference on "The Role of Advanced Numerical Models in Civil Protection Against Natural and Climate Hazards in Coastal Areas" ([Link](#)).
- 2020 Invitation by Frontiers in Marine Science (Publisher: Frontiers) to join the Editorial Board of the Journal (Editorial Board Member Invitation), as Associate Editor in the Coastal Ocean Processes Section ([Link](#)).
- 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](#); [Newsfeed post](#))
- 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). ([PDF](#))
- 2008 Honorary Award from the Technical Chamber of Greece (TEE) "for the overall performance during his studies (2000-2005)". ([PDF](#))
- 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. ([PDF](#))
- 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). ([PDF](#))
- 2007 Award from the Technical Chamber of Greece (TEE) "for the performance in the fourth year of his undergraduate studies (2003-2004)". ([PDF](#))
- 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*). ([PDF](#))
- 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). ([PDF](#))
- 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). ([PDF](#))
- 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. ([PDF](#))
- 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*). ([PDF](#))
- 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.24] Triantafyllou, I., Agalos, A., **Samaras, A.G.**, Karambas, Th.V. and Papadopoulos, G. (2024). Strong earthquakes and tsunami potential in the Hellenic Subduction Zone. *Journal of Geodynamics*, 159, 102021, [DOI](#). ([PDF](#)).
- [J.23] **Samaras, A.G.** and Karambas, Th.V. (2024). Simulating erosive and accretive conditions in the swash: Applications of a nonlinear wave and morphology evolution model. *Journal of Marine Science and Engineering*, 12 (1), 140, [DOI](#). ([PDF](#))
- [J.22] **Samaras, A.G.** (2023). Towards integrated modelling of Watershed-Coast System morphodynamics in a changing climate: A critical review and the path forward. *Science of the Total Environment*, 882, 163625, [DOI](#). ([PDF](#))
- [J.21] **Samaras, A.G.** and Karambas, Th.V. (2021). Modelling the impact of climate change on coastal flooding: Implications for coastal structures design. *Journal of Marine Science and Engineering*, 9 (9), 1008, [DOI](#). ([PDF](#))
- [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](#). ([PDF](#))
- [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](#). ([PDF](#))
- [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](#). ([PDF](#))
- [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., Pilon, 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](#). ([PDF](#))
- [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](#). ([PDF](#))

- [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](#). ([PDF](#))
- [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](#). ([PDF](#))
- [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](#). ([PDF](#))
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](#). ([PDF](#))
- [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](#). ([PDF](#))
- [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](#). ([PDF](#))
- [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](#). ([PDF](#))
- [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](#). ([PDF](#))
- [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](#). ([PDF](#))
- [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](#). ([PDF](#))
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](#). ([PDF](#))
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](#). ([PDF](#))
- [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. ([PDF](#))
- [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](#). ([PDF](#))

PUBLICATIONS IN PEER-REVIEWED CONFERENCES



- [C.50] **Samaras, A.G.**, Iliadis, L. and Karambas, Th.V. (2024). Harbour layout design in a changing climate based on Advanced Numerical Models and Machine Learning: A case study. *38th International Conference on Coastal Engineering, Rome, Italy, September 8-14, 2024.*

- [C.49] Karambas, Th.V. and **Samaras, A.G.** (2024). Modelling 2DH coastal morphodynamics including the sediment supply from rivers and natural streams. *38th International Conference on Coastal Engineering, Rome, Italy, September 8-14, 2024.*
- [C.48] **Samaras, A.G.** and Karambas, Th.V. (2024). Numerical simulation of combined coastal inundation due to fluvial flood, storm surge and wave induced set-up/runup. *8th IAHR Europe Congress, Lisbon, Portugal, June 4-7, 2024.*
- [C.47] **Samaras, A.G.** (2024). The case for a percentage-based author-contribution system in scientific publishing. *8th World Conference on Research Integrity, Athens, Greece, June 2-5, 2024.*
- [C.46] **Samaras, A.G.**, Iliadis, L. and Karambas, Th.V. (2023). A methodology for harbour layout design based on Machine Learning. *40th IAHR World Congress, Vienna, Austria, August 21-25, 2023*, pp.388-391, [DOI](#). ([PDF](#))
- [C.45] Nones, M., Ioannidou, N., **Samaras, A.G.**, Latinopoulos, D., Akratos, C.S., Kagalou, I. and Angelidis, P.B. (2023). Integrating water quality monitoring with numerical modelling in two Mediterranean remote basins. *40th IAHR World Congress, Vienna, Austria, August 21-25, 2023*, pp.121-127, [DOI](#). ([PDF](#))
- [C.44] **Samaras, A.G.**, Triantafyllou, I., Agalos, A., Papadopoulos, G. and Karambas, Th.V. (2023). Modelling earthquake-generated tsunamis: Considerations on the effects of fault models on tsunami generation and propagation. *2nd International Conference Design and Management of Port, Coastal and Offshore Works, Thessaloniki, Greece, May 24-27, 2023*, Vol. I, pp.15-19. ([PDF](#))
- [C.43] Karambas, Th.V., **Samaras, A.G.** and Makris C. (2023). A new time-dependent irregular wave propagation model. *2nd International Conference Design and Management of Port, Coastal and Offshore Works, Thessaloniki, Greece, May 24-27, 2023*, Vol. II, pp. 204-208. ([PDF](#))
- [C.42] **Samaras, A.G.** and Karambas, Th.V. (2022). The role of advanced numerical models in Civil Protection against natural and climate hazards in coastal areas. *9th International Conference on Civil Protection & New Technologies - SafeThessaloniki 2022, Thessaloniki, Greece, September 29 - October 1, 2022*, Invited Keynote Lecture & publication. ([PDF](#))
- [C.41] **Samaras, A.G.** (2022). Towards integrated modelling of Watershed-Coast System morphodynamics in a changing climate: A critical review from a coastal engineering perspective. *7th IAHR Europe Congress, Athens, Greece, September 7-9, 2022*, pp.377-378. ([PDF](#))
- [C.40] **Samaras, A.G.** and Karambas, Th.V. (2022). On the simulation of longshore sediment transport in the swash zone in linear wave models. *7th IAHR Europe Congress, Athens, Greece, September 7-9, 2022*, pp.112-113. ([PDF](#))
- [C.39] **Samaras, A.G.** and Karambas, Th.V. (2022). A new model for cross-shore surf and swash zone morphology evolution induced by nonlinear waves. *39th IAHR World Congress, Granada, Spain, June 19-24, 2022*, pp.5788-5791. (ISSN: 2521-716X; ISBN: 978-90-832612-1-8; [Link](#))
- [C.38] **Samaras, A.G.** and Karambas, Th.V. (2022). Simulation of tsunami generation and propagation using an advanced 2DH post-Boussinesq model. *15th Conference of the Hellenic Hydrotechnical Association, Thessaloniki, Greece, June 2-3, 2022*, pp.861-866. (in Greek, [PDF](#))
- [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. ([PDF](#))
- [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. ([PDF](#))
- [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](#); [PDF](#))
- [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](#); [PDF](#))

- [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](#); [PDF](#))
- [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](#); [PDF](#))
- [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](#); [PDF](#))
- [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](#); [PDF](#))
- [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](#); [PDF](#))
- [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](#); [PDF](#))
- [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](#); [PDF](#))
- [C.26] Gaeta, M.G., **Samaras, A.G.**, Archetti, R. and Lamberti, A. (2015). Numerical investigation of thermal discharge to coastal areas using TELEMAR-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; [PDF](#))
- [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; [PDF](#))
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- [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](#); [PDF](#))

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- [SM.02] **Samaras, A.G.** (2010). User manual of the educational software PELNCON-M_EDU_G / Version 1.0, p. 16. (in Greek; [PDF](#))
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- [OP.04] Bonaldo, D., Sanchez-Arcilla, A., **Samaras, A.G.** and Snoussi, M. (2023). Climate Change impacts on Mediterranean Coastal and Transitional Areas: Assessment, Projection, and Adaptation (Editorial). *Frontiers in Marine Science*, 10, 1341637, [DOI](#). ([PDF](#))
- [OP.03] Karambas T.V. and **Samaras, A.G.** (2021). Modelling of Harbour and Coastal Structures (Editorial). *Journal of Marine Science and Engineering*, 9 (10), 1108, [DOI](#). ([PDF](#))
- [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](#), [PDF1](#), [PDF2](#))

RESEARCH ACTIVITY

RESEARCH EXPERIENCE •• EMPLOYMENT



- 08/2024 – Associate Professor
present Department of Civil Engineering, Democritus University of Thrace, Greece.
-
- 07/2020 – Assistant Professor
07/2024 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.12] Investigation of the morphodynamic status of the coasts of the E.M.T. Region - Proposals for the mitigation of erosion phenomena with the use of advanced numerical models.
Scientific supervisor: Assoc. Prof. **Achilleas Samaras** – Democritus University of Thrace
Funding: East Macedonia & Thrace Region
Period: 2023-2025
- [RP.11] Research and Teaching Activities of the Laboratory of Coastal and Harbour Works.
Scientific supervisor: Assoc. Prof. **Achilleas Samaras** – Democritus University of Thrace
Funding: Greek Engineers and Public Works Contractors Fund
Period: 2021-2026
- [RP.10] Eye4Water – Strengthening the water management practices (in EMT-R) through the development of innovative ICT methodologies and improvement of research infrastructures.
Scientific supervisor: Prof. Ifigeneia Kagkalou – Democritus University of Thrace
Funding: Operational Program "Competitiveness, Entrepreneurship and Innovation", NSRF 2014-2020, ERDF
Period: 2020-2023
- [RP.09] RITMARE – The Italian Research for the Sea (Phase II: Coastal vulnerability to erosion & sea level rise)
Project Manager: Dr. Fabio Trincardi – Institute of Marine Sciences, National Research Council of Italy
Funding: Italian Ministry of University and Research
Period: 2016-2017

- [RP.08] Optimal design of hydraulic communication of a lateral basin to central flow. Application to small harbours and fishponds.
Scientific supervisor: Prof. Georgios Pechlivanidis – Technological Educational Institute of Thessaloniki
Funding: European Social Fund & Greek National Funds
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.
Scientific supervisor: Prof. Christopher Koutitas – Aristotle University of Thessaloniki
Funding: European Fund for Regional Development & Greek National Funds
Period: 2014-2015
- [RP.06] TESSA – Development of Technologies for the “Situational Sea Awareness”.
Scientific supervisor: Assoc. Prof. Nadia Pinardi – University of Bologna
Funding: Italian National Operational Programme “Research and Competitiveness” 2007-2013
Period: 2012-2015
- [RP.05] “Virtual Labs” – Implementation of computer technology in Civil Engineering Education.
Scientific supervisor: Prof. Christopher Koutitas – Aristotle University of Thessaloniki
Funding: Engineers and Public Work Contractors Pension Fund (T.S.M.E.D.E.)
Period: 2010
- [RP.04] Indicators for the evaluation of the environment and sustainability in the Greater Thessaloniki area.
Scientific supervisor: Prof. Nikolaos Moussiopoulos – Aristotle University of Thessaloniki
Funding: Organization of Planning and Environmental Protection of Thessaloniki
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”.
Scientific supervisor: Prof. Nikolaos Kotsovinos – Democritus University of Thrace
Funding: INTERREG IIIC
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”.
Scientific supervisor: Dr. George Sylaios – Fisheries Research Institute (FRI-NAGREF)
Funding: INTERREG IIIC
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”.
Scientific supervisor: Prof. Nikolaos Kotsovinos – Democritus University of Thrace
Funding: INTERREG IIIC
Period: 2006-2008

SCIENTIFIC EDITORIAL DUTIES



Editorial Boards

- [Frontiers in Marine Science](#) (Publisher: Frontiers) | Coastal Ocean Processes Section ([Link](#))
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Special Issues | Research Topics | Books | Conference Proceedings

- 2023 Special Issue "Ariston men hydor – Ἀρίστον μὲν ὕδωρ" - Selected papers from the 15th Conference of the Hellenic Hydrotechnical Association in European Water (Publisher: E.W. Publications, [Link](#))
Guest Editors: Assoc. Prof. Dimitrios Karpouzou, Prof. Aris Psilovikos, Assoc. Prof. Zissis Mallios, Assoc. Prof. Marios Sapountzis and **Assist. Prof. Achilleas Samaras**
- 2023 Special Issue "Ariston men hydor – Ἀρίστον μὲν ὕδωρ" - Selected papers from the 15th Conference of the Hellenic Hydrotechnical Association in the Water Utility Journal (Publisher: E.W. Publications, [Link](#))
Guest Editors: Assoc. Prof. Dimitrios Karpouzou, Prof. Aris Psilovikos, Assoc. Prof. Zissis Mallios, Assoc. Prof. Marios Sapountzis and **Assist. Prof. Achilleas Samaras**
- 2023 Research Topic Book "Climate Change Impacts on Mediterranean Coastal and Transitional Areas: Assessment, Projection, and Adaptation" (Publisher: Frontiers; [Link](#); [PDF](#)).
Editors: Dr. Davide Bonaldo, Prof. Augustin Sanchez-Arcilla, **Assist. Prof. Achilleas G. Samaras** and Prof. Maria Snoussi
- 2021 Special Issue Book "Modelling of Harbour and Coastal Structures" (Publisher: MDPI).
Editors: Prof. Theophanis V. Karambas and **Dr. Achilleas G. Samaras.** ([Link](#); [PDF](#))
- 2021 Research Topic "Climate Change impacts on Mediterranean Coastal and Transitional Areas: Assessment, Projection, and Adaptation" in Frontiers in Marine Science (Publisher: Frontiers).
Topic Editors: Dr. Davide Bonaldo, Prof. Augustin Sanchez-Arcilla, Assist. Prof. **Achilleas G. Samaras** and Prof. Maria Snoussi ([Link](#))
- 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](#))

PHD SUPERVISION & ADVISORY / EXAMINATION COMMITTEES**PhD Supervision**

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PhD Candidate: Gerasimidi, Eleni
Institution: Democritus University of Thrace, Department of Civil Engineering
Co-Supervisors: Prof. Lazaros Iliadis & Assoc. Prof. Achilleas Samaras

PhD Advisory Committees

- 2024-pres. Title: Machine Learning methods in Coastal Engineering
PhD Candidate: Sotireli, Zografia
Institution: Aristotle University of Thessaloniki, Department of Civil Engineering
Supervisor: Prof. Theophanis Karambas
- 2024-pres. Title: Advanced numerical model for the investigation of the impact of emerged and submerged breakwaters' impacts on coastal morphology
PhD Candidate: Tsiaras, Alexandros-Charalambos
Institution: Aristotle University of Thessaloniki, Department of Civil Engineering
Supervisor: Prof. Theophanis Karambas
- 2023-pres. Title: Vulnerability of Greek coastal zones and climate change impact
PhD Candidate: Kokkinos, Dimitrios
Institution: Aristotle University of Thessaloniki, Department of Civil Engineering
Supervisor: Prof. Panayotis Prinos

- 2022-pres. Title: Longterm prediction of shoreline and coastal morphology evolution
PhD Candidate: Roupas, Ioannis
Institution: Aristotle University of Thessaloniki, Department of Civil Engineering
Supervisor: Prof. Theophanis Karambas
- 2022-pres. Title: Innovative methodology for optimizing siting, operation and economic evaluation of offshore wind farms
PhD Candidate: Papanikolaou, Evgenia
Institution: Democritus University of Thrace, Department of Environmental Engineering
Supervisor: Prof. Georgios Sylaios

PhD Examination Committees

- 2025 Title: Hydrodynamic and environmental simulation of the Pagasitikos Gulf (Greece)
PhD Candidate: Bousbouras, George
Institution: Democritus University of Thrace, Department of Civil Engineering
Supervisor: Prof. Panagiotis Angelidis
- 2024 Title: Optimizing processes of operational simulation in transport and dispersion of oil slicks and decision support and response systems
PhD Candidate: Keramea, Panagiota
Institution: Democritus University of Thrace, Department of Environmental Engineering
Supervisor: Prof. Georgios Sylaios
- 2023 Title: Spectral wave propagation in the nearshore incorporating hydrodynamics processes in the swash zone
PhD Candidate: Papadimitriou, Andreas
Institution: National Technical University of Athens, School of Civil Engineering
Supervisor: Prof. Vasiliki Tsoukala
- 2022 Title: Propagation of water waves in shallow water with emphasis on fluid-seabed interactions: Advantages and limitation of 2DH numerical techniques
PhD Candidate: Afentoulis, Vasileios
Institution: National Technical University of Athens, School of Civil Engineering
Supervisor: Prof. Vasiliki Tsoukala

REVIEWING DUTIES IN JOURNALS/CONFERENCES/REPORTS, RESEARCH PROJECTS & PHDs



Journals (CS = CiteScore, IF = Impact Factor, by Publisher and decreasing CS)

[Web of Science Profile](#)

ELSEVIER

- Science of the Total Environment ([Link](#)) CS: 16.8 / IF: 9.8
- Landscape and Urban Planning ([Link](#)) CS: 14.4 / IF: 9.1
- Marine Pollution Bulletin ([Link](#)) CS: 10.1 / IF: 5.8
- Geomorphology ([Link](#)) CS: 7.8 / IF: 3.9
- Ocean and Coastal Management ([Link](#)) CS: 7.7 / IF: 4.6
- Progress in Oceanography ([Link](#)) CS: 7.6 / IF: 4.1
- Ocean Engineering ([Link](#)) CS: 6.6 / IF: 5.0
- Journal of Marine Systems ([Link](#)) CS: 5.6 / IF: 2.8

INSTITUTION OF CIVIL ENGINEERS - ICE

- Maritime Engineering ([Link](#)) CS: 7.3 / IF: 2.7

NATURE

- Scientific Reports ([Link](#)) CS: 7.5 / IF: 4.6

EUROPEAN GEOSCIENCES UNION - EGU

- Hydrology and Earth System Sciences ([Link](#)) CS: 9.5 / IF: 6.3
- Natural Hazards and Earth System Sciences ([Link](#)) CS: 6.8 / IF: 4.6

AMERICAN GEOPHYSICAL UNION - AGU

- Earth and Space Science ([Link](#)) CS: 5.4 / IF: 3.1

SPRINGER

- International Journal of Disaster Risk Science ([Link](#)) CS: 7.1 / IF: 4.0
- Environmental Processes ([Link](#)) CS: 5.9
- Acta Geophysica ([Link](#)) Springer CS: 3.9 / IF: 2.3
- Journal of Coastal Conservation ([Link](#)) CS: 3.6 / IF: 2.1
- China Ocean Engineering ([Link](#)) CS: 2.4 / IF: 1.6
- Microplastics and Nanoplastics ([Link](#))

MDPI

- Remote Sensing ([Link](#)) CS: 7.9 / IF: 5.0
- Sensors ([Link](#)) CS: 6.8 / IF: 3.9
- International Journal of Geo-Information ([Link](#)) CS: 6.2 / IF: 3.4
- Sustainability ([Link](#)) CS: 5.8 / IF: 3.9
- Water ([Link](#)) CS: 5.5 / IF: 3.4
- Energies ([Link](#)) CS: 5.5 / IF: 3.2
- Geosciences ([Link](#)) CS: 5.2 / IF: 2.7
- Informatics ([Link](#)) CS: 4.8 / IF: 3.1
- Applied Sciences ([Link](#)) CS: 4.5 / IF: 2.7
- Urban Science ([Link](#)) CS: 4.5 / IF: 2.0
- Journal of Marine Science and Engineering ([Link](#)) CS: 3.7 / IF: 2.9

ΑΜΟΙ ΕΚΔΟΤΕΣ

- Mediterranean Marine Science ([Link](#)) CS: 5.0 / IF: 2.8 NDC - GREECE
- Journal of Integrative Environmental Sciences ([Link](#)) CS: 4.8 / IF: 2.4 TAYLOR & FRANCIS
- Frontiers in Climate ([Link](#)) CS: 3.3 / IF: 2.8 FRONTIERS
- Journal of Coastal Research ([Link](#)) CS: 1.8 CERF
- Italian J. of Engineering Geology & Environment ([Link](#)) CS: 1.2 LA SAPIENZA P.H.
- Journal of Coastal and Hydraulic Structures ([Link](#)) TU Delft
- European Water ([Link](#)) EWRA
- Water Utility ([Link](#)) EWRA

Research Projects

- 2023 Evaluator for the Call "Marie Skłodowska-Curie Actions Doctoral Networks 2023" (HORIZON-MSCA-2023-DN).
- 2023- Certified Reviewer - Expert for the Hellenic Foundation for Research & Innovation pres. ([HFRI - ELIDEK](#)).
- 2017 External Reviewer for proposals submitted to the 2017 Regular Competition of the Chilean National Fund for Scientific and Technological Development - FONDECYT ([PDF](#)).

PhD Theses

- 2024 Referee for one PhD Thesis submitted to the Department of Science and Technology, Università degli Studi di Napoli "Parthenope", Italy (2025)
PhD Candidate: Papasarafricanou, Stamatia
Thesis Title: A holistic approach for coastal and watershed management for erosion mitigation: Case study of touristic beaches in the Eastern Mediterranean
- 2021 Referee for one PhD Thesis submitted to the Department of Agricultural Science, Mediterranean University of Reggio Calabria, Italy (2021).
PhD Candidate: Nucera, Antonella
Thesis Title: An Integrated Model to Predict Torrents Mouth Evolution in Mediterranean Climate Conditions

Reports

- 2021 Reviewer of the Zero Order Draft of the Special Report "Climate and Environmental Coastal Risks in the Mediterranean" | [Mediterranean Experts on Climate and Environmental Change - MedECC](#)

Conferences

- 34th International Offshore and Polar Engineering Conference, Rhodes, Greece, June 16-21, 2024.
- 32nd International Offshore and Polar Engineering Conference, Shanghai, China, June 6-10, 2022.
- 31st International Offshore and Polar Engineering Conference, Rhodes, Greece, June 20-25, 2021.
- 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.

EXPERT COMMITTEES – SCIENTIFIC COMMITTEES – WORKING GROUPS



- 2025 Member of the Organizing & Scientific Committees | [16th Conference of the Hellenic Hydrotechnical Association](#), Xanthi, Greece, May 29-30, 2025.
- 2025 Member of the Scientific Committee | [3rd International Conference "Design and Management of Port, Coastal and Offshore Works"](#), Patras, Greece, May 7-9, 2023.
- 2023 Coordinating Author for the [Third World Ocean Assessment \(WOA III\)](#) - Section 5B, Chapter 4: Ocean Hazards of Natural Origin | [United Nations "Division for Ocean Affairs and the Law of the Sea"](#)
- 2023 Member of the Pool of Experts | [United Nations "Division for Ocean Affairs and the Law of the Sea"](#)
- 2023 Member of the Scientific Committee | [2nd International Conference "Design and Management of Port, Coastal and Offshore Works"](#), Thessaloniki, Greece, May 24-27, 2023.
- 2022 Member of the International Scientific Committee | [7th IAHR Europe Congress: "Innovative Water Management in a changing climate"](#), Athens, Greece, September 7-9, 2022.

- 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.

INVITED LECTURES



- 2022 The Role of Advanced Numerical Models in Civil Protection Against Natural and Climate Hazards in Coastal Areas*.

Invited Keynote Lecture at the 9th International Conference on Civil Protection & New Technologies – [SafeThessaloniki 2022](#), Thessaloniki, Greece, September 29, 2022.

**Co-authored with Prof. Theophanis Karambas*

TEACHING EXPERIENCE

TEACHING



CC / EC = Core Course / Elective Course | SL / CL = Sole Lecturer / Course Leader

2020-pres. **Assistant/Associate Professor**
Democritus University of Thrace / Department of Civil Engineering

<u>Programme</u>	<u>Courses</u>	
Undergraduate	○ Harbour Works	CC - SL
	○ Maritime Hydraulics & Coastal Engineering	CC - SL
	○ Applications of Harbour Works	EC - SL
	○ Computational Hydraulics (-2024)	EC - SL
	○ Urban Hydraulics (2021-2023)	CC
	○ History & Philosophy of Science & Technology (2021-2022)	CC - CL
Postgraduate	○ Applications of Coastal Engineering, Coastal & Harbour Works ¹	CC - SL
	○ Numerical modelling of processes in the marine/coastal environment and in Watershed-Coast Systems ¹	CC - SL
	○ Numerical Methods in Fluid Mechanics ¹ (-2024)	CC - CL
	○ Debris Flows and Coastal Floods ²	CC - CL
	○ Urban Water Infrastructures and Floods ² (-2024)	CC - CL

¹MSc Programme "Hydraulic Engineering and the Environment"

²MSc Programme "Hydrometeorological Hazards' Management"

2011-2012 **Adjunct Lecturer**
University of the Aegean / Department of Marine Sciences³

<u>Programme</u>	<u>Courses</u>	
Undergraduate	○ Coastal Engineering	CC - SL
Postgraduate	○ Coastal Engineering and Dynamics ⁴	CC - SL

³Now "Department of Oceanography and Marine Sciences"

⁴Interdepartmental MSc Programme "Coastal Zone Management"

2007-2010 **Teaching Associate**
Technological Educational Institute of Thessaloniki / Department of Civil and Infrastructure Engineering⁵

<u>Programme</u>	<u>Courses</u>	
Undergraduate	○ Harbour Works	CC

⁵Now "Department of Environmental Engineering" of IHU

2011-2012 **Teaching Assistant**
Aristotle University of Thessaloniki / Department of Civil Engineering

<u>Programme</u>	<u>Courses</u>	
Undergraduate	- o Coastal Engineering and Harbour Works - o Wave Mechanics	CC CC

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
*Participating to Public Works Competitions as a Licensed Designer of Harbour (Class A) and Hydraulic
 Works (Class A) •• Providing consulting services for various Harbour & Hydraulic Engineering projects*
- 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
Providing consulting services for various Hydraulic Engineering projects
- 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.
 Employer: Municipality of Argos Orestikon (Greece)
 Period: 2014-2015
- [PR.03] Control study of the existing urban water distribution network of Argos Orestikon.
 Employer: Municipality of Argos Orestikon (Greece)
 Period: 2014-2015
- [PR.02] Design study of the wastewater network from Palaiochora to the Zervochoria Wastewater Treatment
 Plant.
 Employer: Municipality of Zervochoria (Greece)
 Period: 2010-2011
- [PR.01] Design study for the flood protection of Marathousa.
 Employer: Municipality of Zervochoria (Greece)
 Period: 2010-2011

SPECIAL CONSULTANCY WORK



- [SC.10] Architectural Ideas Competition for the redevelopment of the common area of the wider area of the
 new "Alexandras" Athens Metro station.
 Team Leader: Prof. Polyxeni Mantzou – University of Ioannina
 Funding: Athens Anaplasia S.A.
 Period: 2023
 Result: 3rd Prize (participation code NZ06099447)
- [SC.09] Harbour works design study for the mitigation of the siltation phenomena at the Imeros Fishing
 Harbour.
 Scientific supervisor: Assist. Prof. **Achilleas G. Samaras** – Democritus University of Thrace
 Funding: Region of East Macedonia and Thrace
 Period: 2023-2024

- [SC.08] Study of coastal erosion phenomena in Kameiros Municipality (Rhodes, Greece) and proposed solutions of the problem.
Scientific supervisor: Ass. Prof. Thomas Hasiotis – University of the Aegean
Funding: Municipality of Kameiros
Period: 2011-2012
- [SC.07] Deepening project of the fishing port of N.Epivates (Thessaloniki, Greece).
Scientific supervisor: Prof. Christopher Koutitas – Aristotle University of Thessaloniki
Funding: Municipality of Thermaikos
Period: 2010
- [SC.06] Scientific consultants on the extension of the 10-28 corridor of the Thessaloniki Intl. Airport.
Scientific supervisor: Prof. Christopher Koutitas – Aristotle University of Thessaloniki
Funding: Hellenic Ministry of Environment, Physical Planning and Public Works
Period: 2008-2009
- [SC.05] Coastal engineering study at the wider area of the Amfipolis Port entry (Serres, Greece).
Scientific supervisor: Prof. Christopher Koutitas – Aristotle University of Thessaloniki
Funding: Prefecture of Serres
Period: 2008
- [SC.04] Scientific consultants on the extension of the 10-28 corridor of the Thessaloniki International Airport.
Scientific supervisor: Prof. Christopher Koutitas – Aristotle University of Thessaloniki
Funding: Hellenic Ministry of Environment, Physical Planning and Public Works
Period: 2007-2008
- [SC.03] Feasibility study and overall evaluation of suburban sea transport in Thessaloniki.
Scientific supervisor: Prof. Christopher Koutitas – Aristotle University of Thessaloniki
Funding: PLANET SEAWAYS S.A.
Period: 2007
- [SC.02] Final solution to the coastal erosion problem in the South Olympus Municipality (Pieria, Greece).
Scientific supervisor: Prof. Christopher Koutitas – Aristotle University of Thessaloniki
Funding: Thessaloniki Port Authority (Th.P.A.)
Period: 2005
- [SC.01] Final solution to the coastal erosion problem and harbour upgrading in Paralia Katerinis Municipality (Pieria, Greece).
Scientific supervisor: Prof. Christopher Koutitas – Aristotle University of Thessaloniki
Funding: Thessaloniki Port Authority (Th.P.A.)
Period: 2005

OTHER CURRICULUM VITAE INFORMATION

SCIENTIFIC & PROFESSIONAL SOCIETY MEMBERSHIPS



- 2022- International Association for Hydro-Environment Engineering and Research – IAHR
- 2015- European Geosciences Union – EGU
- 2016-2017 Italian Group of Hydraulics (Gruppo Italiano di Idraulica) – GII
- 2009-2017 Licensed Designer of Public Works (Record No.: 21833) 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 (Record No.: 20972)
- 2005- Technical Chamber of Greece (Record No.: 105843)

BOARDS – OTHER ACTIVITIES



- 2024-2026 Elected Member of the Board of Directors of the Hellenic Hydrotechnical Association. ([Link](#))
- 2022-2024 Elected Member of the Board of Directors of the Hellenic Hydrotechnical Association. ([Link](#))
- 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](#))

MENTORING



- 2022- Mentor for One Hundred Mentors. ([Link](#))

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 [\[1.12\]](#) "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 <i>Certificates: Certificate of Proficiency in English, University of Cambridge, 2006</i> <i>Certificate of Proficiency in English, University of Michigan, 2006</i>
Italian	Independent user – Understanding/Reading/Writing Level: CEFR B2 <i>Certificates: Diploma di Lingua Italiana, Istituto Italiano di Cultura, 1997</i> <i>Certificato Superiore, PALSO, 1996</i>
French	Basic user – Understanding/Reading/Writing Level: CEF A2 <i>Certificates: Diplôme D'Etudes En Langue Française DELF A2, République Française, 2000</i>