

THEODOROS CHALAZAS

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EDUCATION

02/2021- Today *University of the Aegean, PhD Candidate*, School of the Environment, Department of Marine Sciences, Mytilene, Greece.

Thesis: Establishment of an integrated Coastal Protection Decision Making System using a spatial data platform

Supervisor: Professor Adonis Velegrakis

10/2015-09/2017 *University of the Aegean, MSc Integrated Coastal Zone Management*, School of the Environment, Department of Marine Sciences, Mytilene, Greece.

Key Modules: Coastal Geo-Hazards, Coastal Oceanography and Climate change, Coastal and Marine Pollution, GIS and Remote – Sensing, Coastal Ecology and Bio-diversity, Management of Biological Resources and Sustainable development, Integrated Coastal Zone Management, Quantitative Analysis of Environmental Data.

Dissertation: Evaluation of Coastal Vulnerability and Sea Level Rise in the Southeastern Coasts of Chios Island, Greece.

Supervisor: Professor Thomas Hasiotis

10/2005-03/2014 *Aristotle University of Thessaloniki, BSc Geology*

Key Modules: Physical Geography, Oceanography, Digital Cartography & Geographical information Systems (G.I.S.), Matlab, Chemistry, Statistics, Physics, Mathematics, Geophysics, Meteorology and Climatology, Structural Geology and Stratigraphy, Minerology, Sedimentology, Hydrogeology, Ground Water Exploitation and Management.

Thesis: Study of Flood Deposits at the Village of Melissourgos in Thessaloniki County.

Supervisor: Professor Konstantinos Albanakis

WORK EXPERIENCE

11/2021 – Today, Researcher at European Coastal Flood Awareness System (ECFAS) research program

08/2021 – Today, Researcher at Coastal Environment and Risk Management Observatory (AEGIS+) research program

05/2018 – Today, Co-Founder of ‘MARE INCOGNITA’: Mare Incognita is a company that operates in the field of Integrated Coastal Zone Management and Geological applications.

Projects Undertaken:

2021 Stratwni Chalkidiki

Geophysical research for stratwni beach, Chalkidiki. SBES,SSS and SBP surveys for the geophysical study of the area.

2021 Thermaikos Gulf Thessaloniki

Extensive Bathymetric surveys with SBES and SSS in a very large area of thermaikos gulf for the identification of Pinna Nobilis Mediterranean fan mussel

2020 Blue prototype accelerator (MISTRAL program): Mare Incognita ranked 1st with the idea of developing a DSS for the assessment of the socio-economic characteristics of beaches paired with the estimated coastal erosion / flooding under different sea level rise scenarios.

2020 PARSEC accelerator: PARSEC is an accelerator program providing economic support and mentoring to SME to develop business ideas based on the use of EO data. The pitch video of the company ranked 2nd among 369 candidates.

2019 St. George Wind Park, Greece: Hydrographic & geophysical surveys for the inspection of the existing submarine cable of Terna Energy Ltd. Subcontracted from Akti Engineering

2019 Crete – Peloponnese submarine interconnection, Greece: Hydrographic, Topographic and Geophysical surveys for the installation of 150kV power and optical submarine cable interconnection between Crete and Peloponnese. Our client Akti Engineering was subcontracted by NEXT GEOSOLUTIONS EUROPE S.P.A.

2018-2021 Bathymetric surveys, sedimentology and GIS services : Numerous bathymetric surveys with high accuracy and resolution in the coasts of Chalikidiki, Greece. Collection of sediments samples and analysis. Numerous GIS services.

02/2017-06/2017 Scholarship: Hangzhou Dianzi University, School of Management, Hangzhou, China.

09/2014-06/2015 Military Service: 117 Propelled Medium Artillery Unit of Greek Army, Rizia Evrou, Greece. **Job Title:** Assistant Technical Observer

10/2005- 08/2014 Part-time jobs during studies: Bar, Post office, Concerts **Job Titles:** Bartender, Seasonal postman, Technician of audio and visual equipment installation

RESEARCH AND PUBLICATIONS

11/2021 Conference: Chalazas Th., Chatzistratis D., Velegrakis A. 2021. Spatial prioritization for coastal management based on erodibility assesment paired with socioeconomic elements. Hydromedit 2021, 4th International Congress on applied Ichthyology and aquatic environment. Mytilene, Greece

11/2018 Conference: Chalazas Th., Hasiotis T., Monioudi I., Andreadis O., Manoutsoglou, E., Velegrakis A. 2018. Evaluation of coastal vulnerability using the InVest model – Case study: SE Chios island. Hydromedit 2018, 3rd International Congress on applied Ichthyology and aquatic environment. Volos, Greece

12/2017 Publication: Theodoros Chalazas, Ourania Tzoraki, David Cooper, Maria Adamantia Efstratiou, Vasileios Bakopoulos 2017 Ecosystem service evaluation of streams for nutrient and bacteria purification in a grazed watershed. Fresenius Environmental Bulletin Journal, Parlar publisher, Volume 26, No. 12A/2017 pages 7849-7859

11/2016 Conference: Theodoros Chalazas, Ourania Tzoraki, David Cooper, Maria Adamantia Efstratiou, Vasileios Bakopoulos. 2016. Αξιολόγηση οικοσυστημικών υπηρεσιών των ροών θρεπτικών και βακτηρίων για την αποδόμηση τους από λεκάνες απορροής με βοσκοτόπους. 4th ENVECON (Environmental Economic Conference). Volos, Greece.

ADDITIONAL SKILLS

Computer skills: Certification of Informatics and Computer Handling (Aristotle University of Thessaloniki, Greece) including Microsoft Packages, FORTRAN, G.I.S and MatLab.

Expert skills in MS Word, Excel, PowerPoint, Video editing

Expert skills in GIS (Arcmap, QGIS)

Basic skills in Remote Sensing (SNAP)

Knowledge of : Numerical computing environment MATLAB and Octave, Python, statistical programming language R studios, GIS based models InVest Nutrient retention and InVest Coastal vulnerability, sediment grain size analysis program GRADISTAT.

Technical Skills: Diploma from attending business initiative seminars organized by OAED (Organism of Workforce Employment), Data analysis, Strong Numerical Skills, Social Media and Networking, Strong experience of surveying with single beam echosounder, GPS and Side scan Sonar. Strong experience in bathymetric surveys, sedimentology and geological mapping fieldwork.

Languages: Greek (native), English Proficient level, diploma: Certificate of Proficiency in English (ECPE) University of Michigan (C2), German Basic level, diploma: Grundstufe, Goethe-Institut (B1).