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## PERSONAL DETAILS

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Full name: Georgia Charalampous  
Date of birth: 28/01/1990  
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## EXPERIENCE

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### Postdoctoral researcher

(from September 2025)

Supervisor: Ioannis V. Yentekakis

Institute of Geoenergy, FORTH

*Interreg Research Project “BLUEQ- Applied Solutions for Monitoring Coastal Habitats and Quantifying Blue Carbon Storage: An Integrated Approach for Sustainable Ecosystem Management”.*

- Researcher and communication manager-contribution to financial project management and dissemination activities.

### Research Associate

(July 2022-March 2025)

Project Coordinator: Emmanuel Stamatakis

Institute of Geoenergy, FORTH

*European Research Project “TWINN2SET- Twinning to Sustainable Energy Transition”.*

- Participation in world-class online courses (MOOCs) paired with practical courses using modelling software on Energy Transition, Geothermal systems and Subsurface Gas systems.
- Short-term visit (2-week) at the IFPEN premises to participate in the study for the characterization of hydrogenotrophic microbes using cultivation methods and molecular biology techniques.
- Microbial analysis (DNA extraction) of samples collected from geothermal location in Greece (Aidipsos), interpretation of results and writing of reports.
- Attend annual meetings and summer schools.

### Research Associate

(July 2022-March 2025)

Principal Investigator: Nicolas Kalogerakis

Institute of Geoenergy, FORTH

*H.F.R.I Research Project “X-PRESS- EXtreme environments: High PRESSure Sampling and experimentation system for deep-sea hydrocarbon releases” (National Project)”.*

- Execution of high pressure, hydrocarbon degradation experiments using the X-PRESS high pressure sampling and experimentation system.
- Microbial analysis of samples and data collection.
- Writing of manuscripts and project reports.

**Research Associate****(September 2021-June 2022)****Principal Investigator: Eleftheria Antoniou****Technical University of Crete**

*H.F.R.I Research Project “DEEPSEA-Bioremediation of hydrocarbon releases in Deep Sea (National Project)”.*

- Design and execution of experiments involving the incubation of deep marine microbial communities under high pressure conditions in the presence of hydrocarbons.
- Monitoring of deep microbial community succession during hydrocarbon degradation experiments.
- Analysis of results, writing of publications and project reports.

**Research Associate****(June 2019-August 2021)****Principal Investigator: Evangelia Gontikaki****Technical University of Crete**

*H.F.R.I Research Project “HEALMED-Determination of the self-healing capabilities of the Eastern Mediterranean Sea from accidental deep-sea oil releases (National Project)”.*

- Participation in high pressure experiments using deep collected marine microbial communities to address their hydrocarbon degradation potential.
- Involvement in microbiological sample analysis and data collection (DNA extraction for 16S rRNA and metagenomics, dissolved organic carbon, flow cytometry).
- Dissemination of results, writing of manuscripts and project reports.

**Research Associate****(Apr 2016- Mar 2019)****Principal Investigator: Nicolas Kalogerakis****Technical University of Crete**

*European Research Project (Horizon 2020) “INMARE-Innovative screening and expression platforms to discover and use the functional protein diversity from the sea”.*

- Participation in protocol design and execution of experiments for separation and purification of laccase enzyme from marine fungi.
- Sample analysis (cell biomass, laccase activity) and data collection
- Writing project reports, attend project meetings and dissemination of results.

*European Research Project “KILL\*SPILL-Integrated Biotechnological Solutions for Combating Marine Oil Spills”.*

- Participation in microbiological analysis.

*European Research Project “WATER4CORPS Integrating bio-treated wastewater with enhanced water use efficiency to support the Green Economy in EU and India”.*

- Participation in the production and separation of enzymes.

**Postgraduate researcher**  
**Supervisor: Kostas Tokatlidis**

**(Oct 2014-Oct 2015)**  
**University of Glasgow, Scotland**

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## **EDUCATION**

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**PhD in Chemical and Environmental Engineering** (2020-2024)  
**Technical University of Crete**  
*Dissertation: Microbial communities of the Eastern Mediterranean Sea and their hydrocarbon degradation capability*

**Master's Degree in Protein Biotechnology** (2012-2014)  
**Department of Biology, University of Crete**  
*Grade: 9.43*

**Bachelor's Degree in Biology** (2007-2012)  
**Department of Biology, University of Crete**  
*Grade: 6.66*

**Graduate of Agios Georgios High School** (2005-2007)  
**Larnaca, Cyprus**  
*Grade: 18 and 9/12*

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## **ATTENDANCE IN CONFERENCES OVER THE LAST 10 YEARS**

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**15-17 October 2024** **3<sup>rd</sup>International Electronic Conference on Diversity**  
*Oral* *Online*

**30-02 December 2023** **10<sup>th</sup>conference of Mikrobiokosmos**  
*Poster* *Larissa, Greece*

**19-23 September 2022** **ISMET8 - International Society for Microbial  
Electrochemistry and Technology**  
*Participation* *Chania, Greece*

**12-17 June 2022** **8<sup>th</sup> Bioremediation conference**  
*Oral & Poster (Flash Oral)* *Chania, Greece*

**16-18 December 2021** **9<sup>th</sup> conference of Mikrobiokosmos**  
*Poster* *Athens, Greece*

**8-11 June 2021**

*Poster*

**ISMOS 8th conference**

*Online*

**25-28 June 2018**

*Poster*

**7<sup>th</sup> Bioremediation conference**

*Chania, Greece*

**7–9 April 2017**

*Poster*

**7<sup>th</sup> conference of Mikrobiokosmos**

*Athens, Greece*

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## **PUBLICATIONS**

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- G. Charalampous, K.A. Kormas, E. Antoniou, N. Kalogerakis, E. Gontikaki . Distinct Communities of Bacteria and Unicellular Eukaryotes in the Different Water Masses of Cretan Passage Water Column (Eastern Mediterranean Sea). *Current Microbiology*. **2024**; 81,381. <https://doi.org/10.1007/s00284-024-03906-3>
- G. Charalampous, E. Fragkou, N. Kalogerakis, E. Antoniou, E. Gontikaki. Diversity links to functionality: Unravelling the impact of pressure disruption and culture medium on crude oil-enriched microbial communities from the deep Eastern Mediterranean Sea. *Marine Pollution Bulletin*. **2024**; 202. <https://doi.org/10.1016/j.marpolbul.2024.116275>
- E. Antoniou, E. Fragkou, G. Charalampous, D. Marinakis, N. Kalogerakis, E. Gontikaki. Emulating Deep-Sea Bioremediation: Oil Plume Degradation by Undisturbed Deep-Sea Microbial Communities Using a High-Pressure Sampling and Experimentation System. *Energies*. **2022**; 15(13). <https://doi.org/10.3390/en15134525>
- G. Charalampous, E. Fragkou, K.A. Kormas, A.B. De Menezes, P.N. Polymenakou, N. Pasadakis, N. Kalogerakis, E. Antoniou, E. Gontikaki. Comparison of Hydrocarbon-Degrading Consortia from Surface and Deep Waters of the Eastern Mediterranean Sea: Characterisation and Degradation Potential. *Energies*. **2021**; 14(8). <https://doi.org/10.3390/en14082246>
- P. Kritsiligkou, A. Chatzi, G. Charalampous, A. Mironov, CM. Grant, K. Tokatlidis. Unconventional Targeting of a Thiol Peroxidase to the Mitochondrial Intermembrane Space Facilitates Oxidative Protein Folding. *Cell Rep*. **2017**;18(11). <https://doi.org/10.1016/j.celrep.2017.02.053>

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## **LANGUAGES**

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- Greek (native)
- English (advanced)-IGCSE certificate, University of Cambridge

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## **SKILLS**

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### **Technical and Laboratory Skills**

Microbial Cultures

Molecular Biology (PCR, DNA extraction)

Biochemistry (protein/enzyme purification)

Bioinformatics (analysis of 16S rRNA and metagenomic sequencing results in the R environment)

### **Analytical and Data skills**

Interpretation of experimental results, statistical analysis

Research Methodology

Critical thinking

### **Communication and soft skills**

Scientific writing

Verbal communication

Teamwork/Collaboration