

IRENE MARIA VRETTOU

Environmental Chemist / Geologist with experience in conducting quality controls, with excellent communication skills and rich voluntary action.



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Aghia Paraskevi Athens



WORK EXPERIENCE

Environmental Chemist | Geologist

National Observatory of Athens - Institute for Environmental Research & Sustainable Development 07/2020 – Today

- Within the project: «PARADOX-H» Particulate matter, Reactive oxygen and their diverse oxidative potential – Health
- Performing necessary checks with attention to detail

Environmental Chemist | Geologist

Refinery Chemistry, HelleniQ Energy(Elpe),Athens 10/2019 – 12/2019

- Carrying out quality control of LPG production of the Refinery with Gas Chromatography (GC) techniques
- Carrying out quality control of the Cooling Water of the Production Units and monitoring of the Liquid Waste of the Refinery
- Ensuring functional control of the Biological Treatment Unit of the factory
- Carrying out effective control of Operating Units of the factory
- Problem-solving, observant, methodical approach.

Environmental Chemist | Geologist

Refinery Chemistry, HelleniQ Energy(Elpe), Athens 07/2019 – 09/2019

- Carrying out quality control of the Cooling Water of the Production Units and monitoring of the Liquid Waste of the Refinery
- Ensuring functional control of the Biological Treatment Unit of the factory
- Carrying out effective control of Operating Units of the factory
- Using laboratory equipment responsibly

Internships

Company Terna Lefkolithoi A.E., Athens

07/2016 – 10/2016

- Observance of environmental terms and conditions for the underground exploitation of magnesium (pumice)

Teaching

Courses

2014 – 2016

- Design and preparation of science courses

Geologist

Technical Company JV Constructions, Athens

06/2013 – 09/2013

06/2012 – 09/2012

Geologist

Technical Company SIS Κατασκευές

06/2012 – 09/2012



EDUCATION

Master in Chemistry, Technology and Environmental Management

National and Kapodistrian University of Athens - 2019

Diploma: Heavy Metals in Sediment Cores in the Saronic Gulf

Bachelor of Geology and Geoenvironment

National and Kapodistrian University of Athens - 2016



SEMINARS/COURSES

- 11th International Aerosol Conference – 4-9 September 2022
- Validation of Analytical Methods Using Spreadsheets – 02/2022
- "Renewable Energy Sources: The #meta of Energy in Greece" – 01/2022
- UTILIZATION OF INDUSTRIAL MINING WASTE IN THE PRODUCTION OF INNOVATIVE FIREPROOF PRODUCTS – 12/2021
- Presentation of the results of the CatOzoN research project: Removal of non-biodegradable organic load & micropollutants by the application of heterogeneous catalytic ozonation from the effluent of municipal wastewater treatment plants - 12/2021
- Environmental and Social Governance Criteria (ESG) "Net Zero Action": From challenge to opportunity for accelerated and sustainable value creation – MYTILINEOS Company – 02/2021
- Summer workshop I cycle: Introduction to Geoinformatics GIS & use of QGIS open source software – 09/2021
- Marine litter in the Mediterranean: a problem that offers opportunities, Athens – 10/2018
- 40th International Conference on Environment & Food Monitoring (ISEAC-40), Spain – 06/2018
- Development & Evaluation of Creativity & Innovation Skills
2^o Open Campus, Athens – 12/2017
- Development by the sea: A European Maritime Policy for Greece, Jean Monnet European Centre of Excellence – 06/2017
- European Maritime Policy, Jean Monnet European Centre of Excellence – 06/2017

- Environmental Permitting of Projects & Activities– 05/2017
- Lectures on Environment and Physics – Athens Science Festival – 03/2016
- Earthquake forecasting – Annual Speech of the Geological Society – 01/2014
- Santorini: A volcano that sleeps?– 04/2013
- The catastrophic earthquake in Japan, the Tsunami and the nuclear nightmare– 05/2011
Professional rehabilitation of Geologists
- LACAE educational activities on the "EKPA Open Gates Day"



LANGUAGES

- Greek – native
- English – Άριστα – C2
- French – Καλή γνώση – B2



NETWORKING SKILLS

- Microsoft Office:**
Word – Excel – PowerPoint – Access
- Άλλες γνώσεις:**
Geographic information systems GIS – Internet Explorer, Google Chrome, Mozilla Firefox and use of search engines



SKILLS

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|---------------|----------------------|-----------------|----------------------|
| Communicating | <input type="text"/> | Reliability | <input type="text"/> |
| Collaborating | <input type="text"/> | Time Management | <input type="text"/> |
| Organizing | <input type="text"/> | Adaptability | <input type="text"/> |



VOLUNTEERING EXPERIENCE

- Researcher's Night, NCSR "Demokritos" – 10/2018
- Researcher Night, Climatology Laboratory in the field of Geography and Climatology– 09/2017
- Climatology Laboratory of Geography and Climatology, Athens Science Festival– 04/2017
- Climatology Laboratory of Geography and Climatology, Athens Science Festival I – 04/2016
- Museum of Paleontology (Sundays at the Museum) of the Department of Geology and Geoenvironment – 2011



PARTICIPATIONS IN PROGRAMS

- Participation in the experiential program Meteorology - Climatology "Time for Experiments of the Laboratory of Climatology in the field of Geography and Climatology, University of Athens – 03/2019
- Laboratory of the Department of Environmental Chemistry for the Project: Magnetic measurements and potentially toxic elements in settled bus dust – 2018



PERSONAL INTERESTS

- Dancing – Chorus – Theatre
- Sailing - Travelling
- I write articles on my blog