

PERSONAL INFORMATION



Nektarios Kalaitzakis

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Sex Male | Date of birth 07/04/1979 | Nationality Greek

PERSONAL STATEMENT

Environmental Scientist with a demonstrated history of working in the research industry. Characterized by a strong will towards lifelong learning and a strong tendency to keep up to date to all modern analytical, technological and scientific trends of his fields of interest.

Experienced in E.U. Water Framework Directive (2000/60/EC) implementation, Water Quality Modeling, Water basin management, Sustainable Development, Macroecology, Stream Ecology, Geoinformatics, and Statistics / Data Science (R, Python).

Collaboration oriented personality, highly effective in problem identification, solution allocating, decision making and project implementing with respect to carefully reviewing every outcome of the problem solving process.

WORK EXPERIENCE

01/02/2015–Present

Environmental Scientist

Hellenic Centre for Marine Research, Institute of Marine Biological Resources and Inland Waters, Anavissos (Greece)

- Principal participant in the production process of the fish based **"Improved biological index for assessing the river ecological quality of Sperchios River Basin"** in Central Greece as also to the relevant reporting projects.
- **"Hellenic Fish Index (HeFI)"** Participation in the E.U. **Water Framework Directive (2000/60/EC)** Intercalibration process
- Participation in field samplings of biotic parameters (electrofishing) and abiotic (physical and chemical) parameters for the **National Fisheries Monitoring programme**, the **Waters Framework Directive monitoring system** in Greece and the **"Natura 2000"** programs.
- Participation to **EMODnet MedSea Checkpoint challenge 7 – River Inputs (European Marine Observation and Data Network)**.
- Statistical analysis of fisheries data.
- Geospatial analysis relevant to the needs of the institute's ongoing research programs.
- Participation to academic publications authoring.

01/07/2014–30/09/2014

Assistant Environmental Scientist

Hellenic Centre for Marine Research, Institute of Marine Biological Resources and Inland Waters, Anavissos (Greece)

- Geospatial analysis relevant to the needs of the institute's ongoing research programs.
- Statistical analysis of fisheries data.
- Participation in field samplings of biotic parameters (electrofishing) and abiotic (physical and chemical) parameters.

01/07/2013–30/09/2013

Intern Environmental Scientist

Hellenic Centre for Marine Research, Institute of Marine Biological Resources and Inland

Waters, Anavissos (Greece)

- Geospatial analysis relevant to the needs of the institute's ongoing research programs.

01/10/2000–01/08/2009

Accountant

Athens (Greece)

- Bookkeeping in several types of industrial and commercial companies
- Contact, follow up and public relations with customers
- Customer need based law investigations relevant to tax issues
- Handling and closure of all types of customer-governmental organizations related cases.

EDUCATION AND TRAINING

2017–Present

Statistics (M.Sc.)

EQF level 7, ECTS
credits: 90

Athens University of Economics and Business, Athens (Greece)

01/10/2010–03/03/2015

Environmental Science (B.Sc.)

EQF level 6, ECTS
credits: 240

University of the Aegean, Department of Environmental Science, Mytilene (Greece)

Dissertation (10), Internship (10), Analytical Chemistry Laboratory (9), Animal Biology (9.2), Aquatic Ecosystems (10), Biogeography (8.9), Biological Diversity (9), Biology (7.86), Chemistry (8.1), Climate change (9.5), Climatology / Meteorology (10), Coastal and Transitional Ecosystems (9.5), Computer Programming (9.3), Conservation Biology (9.4), Ecological Risk Analysis (9.2), Ecological Risk Analysis (9.2), Ecological Theory I (10), Ecological Theory II (9.8), Economy and the Environment I (9), Economy and the Environment II (10), Environmental Applications of GIS (10), Environmental Chemistry (9.3), Environmental Chemistry Laboratory (9), Environmental Impact Assessment (9.5), Environmental Law (8.6), Environmental Policy: European And International Dimensions (8), Environmental Sociology (8.6), Geology (9), Introduction to Ecology (10), Introduction to Environmental Engineering (8.6), Introduction to Environmental Science (10), Introduction to Topography and G.I.S. (9.7), Landscape Ecology (10), Management of solid and hazardous waste (10), Mathematics (9.7), Organic Chemistry (8.9), Pedology, Soil science (9.4), Physics (10), Planning of Protected Areas (9.7), Plant Biology (9.6), Population Genetics (8), Quantitative Ecosystem Analysis (9.2), Research Methods (10), Spatial Databases (8.3), Spatial Environmental Planning I (8.5), Spatial Environmental Planning II (9), Spatial Statistics I (8), Statistics (10), Terrestrial Ecosystems (9.8), Water Resources Management (9.2)

06/07/2015–11/07/2015

Certificate of Attendance in "Ecological Data Analysis using R (ecodar2015)"

ECTS credits: 4

Department of Marine Sciences & Department of Environment of the University of the Aegean, Mytilene, Lesvos (Greece)

"Ecological Data Analysis using R (ecodar2015)" Summer School organised by the Department of Marine Sciences & Department of Environment of the **University of the Aegean**.

Duration: 43 hours / *Awarded:* **4 ECTS** credits / *Themes:*

- Introduction to R Software and Programming Language with Practicals
- Classic Statistical methods with Practicals
- Advanced Statistical methods with Practicals
- Case-studies in Ecology

01/10/2000–31/05/2002

Certificate Of expertise in Computerized Accounting

Greek State Vocational Training Institute, Athens (Greece)

PERSONAL SKILLS

Mother tongue(s) Greek

Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C2
First Certificate In English					
German	A2	A2	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Communication skills Good communication skills gained through my 10 years career as an accountant.

Organisational / managerial skills Good organisational skills gained through my 10 years career as an accountant
 Very good team-leading skills gained as Mountaineering-Rock climbing instructor during the period 2000-2010

Job-related skills Very good command of Fish sampling devices as gained from participation in relevant research programmes
 Excellent command of hydrological, pedological or ecological sampling procedures
 Good research and experimental design skills

Digital skills	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital skills - Self-assessment grid

- Excellent command of office (or similar) suite (word processor, spread sheet, presentation software)
- Excellent command of Geo-Informational (GIS), Geospatial Modelling and Remote Sensing Software like ESRI ArcGIS, QGIS/GRASS, ERDAS Imagine, ILWIS
- Very good command of statistical programming and modelling languages like R, Python and statistical software like SPSS.
- Very Good command of (Geo) database systems like MongoDB (No-SQL) or Postgresql and MySQL (SQL)
- Good command of programming languages like Visual basic and Visual Basic for Applications (VBA) in M.S. Excel.

Other skills Passionate lover of rock climbing, mountaineer, alpinism, mountaineering ski and alpine skiing
 Runner
 Occasionally interested in Cave and Canyon exploring
 First aid: Certified in providing first aid, as part of my Mountaineering training

Driving licence A, B, BE

ADDITIONAL INFORMATION

Honours and awards September 2010: Scholarship: State Scholarship Foundation, Greece (IKY)

- Projects**
- Sep 2016 – Dec 2016: **"Hellenic Fish Index (HeFI)" Intercalibration process of the E.U. Water Framework Directive (2000/60/EC)**
Project description: Participation in the E.U. Water Framework Directive (2000/60/EC) intercalibration process of the "Hellenic Fish Index (HeFI)" a nation-wide model-based fish index which can be applied in a wide variety of river types in the southern Balkans.

 - Jul 2014 - Jul 2016: Principal participant in the production of the fish based **"Improved biological index for assessing the river ecological quality of Sperchios River Basin"** in Central Greece as also to the relevant reporting projects.

 - Aug 2015 - Mar 2016: **EMODnet MedSea Checkpoint challenge 7 – River Inputs (European Marine Observation and Data Network)**
Project description: The objectives of challenge 7 – River Inputs were
 To provide an overview on the temporal and spatial variability of riverine material fluxes to the Mediterranean Sea and eels capture data.
 To identify the major trends that could threaten these ecosystems in the near future because of climate change and socio-economic development.
 To assess the uncertainty in these scenarios, as their reliability could be examined in the light of knowledge limitations on current modelling algorithms and input data sets that naturally impact the resulting river scenarios.
 To allow identification of major data and knowledge gaps which have to be closed by future research efforts in order to assess the potential impact of global change in the Mediterranean region via the riverine link between land and sea.

 - 2014 - 2015: Participation in field samplings (freshwater / transitional / coastal) of biotic (fish) parameters (electrofishing) and abiotic (physical and chemical) parameters for the **"National Fisheries Monitoring programme"**, the **"Water Framework Directive monitoring"** system in Greece and the **"Natura 2000"** programs.






 - 2013 – 2015: Participation to the Kripis Research Programme **"Integrated management of water resources in Spercheios river catchment and Maliakos Gulf"** of the Institute of inland waters and Biological Resources (Hellenic Center of Marine Research (HCMR))
- Conferences**
- Distribution-local abundance patterns in fishes of Greek rivers: An ecoregional approach. Proceedings of the Hellenic Conference of Ichthyologists 16, At Kavala, Greece 2016-10 | conference-paper
 - Monitoring the fish fauna of Hellenic rivers according to the Water Framework Directive 2000/60/EC for the period 2012-2015. Proceedings of the Hellenic Conference of Ichthyologists 16, At Kavala, Greece 2016-10 | conference-paper
 - Local abundance patterns in fishes of Greek rivers: An ecoregional approach (In Greek). Proceedings of the Hellenic Conference of Ichthyologists 16, At Kavala, Greece 2016 | conference-paper
 - Poster Presentation: Identifying elements of uncertainty in developing a fish-based index of ecological quality for the Sperchios River. 37th Scientific Conference of the Hellenic Society of Biological Sciences, At Volos Greece 2015-05 | conference-poster
- Publications**
- "Hellenic Fish Index (HeFI)" Intercalibration process of the E.U. Water Framework Directive (2000/60/EC). Hellenic Centre for Marine Research 2016-12 | report
 - Technical report on the improved biological index for assessing river ecological quality - Sperchios River Basin (In Greek). Hellenic Centre for Marine Research - KRIPIS Project 2016-07-31 | report DOI: [10.13140/RG.2.2.36703.46241](https://doi.org/10.13140/RG.2.2.36703.46241)
 - Technical Report of Recommended Management Indicators Based on International Experience (In Greek). Dec 2015 Hellenic Centre for Marine Research / KRIPIS PROGRAMME 2.6
 - Technical Report of the initial assessment of ecological quality results. Dec 2015 Hellenic Centre for Marine Research / KRIPIS PROGRAMME 3.2. DOI: [10.13140/RG.2.2.14472.01287](https://doi.org/10.13140/RG.2.2.14472.01287)

- EMODnet MedSea Checkpoint challenge 7 – River Inputs (European Marine Observation and Data Network). European Marine Observation and Data Network 2015-12 | data-set
- Technical report concerning stakeholders, questionnaire results and conclusions with respect to the river basin management vision / Spercheios River Basin (In Greek). Hellenic Centre for Marine Research 2015-12 | report DOI: [10.13140/RG.2.2.14472.01287](https://doi.org/10.13140/RG.2.2.14472.01287)

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Mother tongue(s)
Greek

Foreign language(s)
English, German

English				
Self-assessment of language skills				
UNDERSTANDING		SPEAKING		WRITING
 Listening	 Reading	 Spoken interaction	 Spoken production	 Writing
C2 Proficient user	C2 Proficient user	C1 Proficient user	C1 Proficient user	C2 Proficient user
Certificates and diplomas				
Title	Awarding body		Date	Level*
First Certificate In English	University Of Cambridge		12/1995	B2

German				
Self-assessment of language skills				
UNDERSTANDING		SPEAKING		WRITING
 Listening	 Reading	 Spoken interaction	 Spoken production	 Writing
A2 Basic User	A2 Basic User	A1 Basic user	A1 Basic user	A1 Basic user

Common European Framework of Reference for Languages - Self-assessment grid

		A1 Basic user	A2 Basic User	B1 Independent user	B2 Independent user	C1 Proficient user	C2 Proficient user
Understanding	 Listening	I can understand familiar words and very basic phrases concerning myself, my family and immediate concrete surroundings when people speak slowly and clearly.	I can understand phrases and the highest frequency vocabulary related to areas of most immediate personal relevance (e.g. very basic personal and family information, shopping, local area, employment). I can catch the main point in short, clear, simple messages and announcements.	I can understand the main points of clear standard speech on familiar matters regularly encountered in work, school, leisure, etc. I can understand the main point of many radio or TV programmes on current affairs or topics of personal or professional interest when the delivery is relatively slow and clear.	I can understand extended speech and lectures and follow even complex lines of argument provided the topic is reasonably familiar. I can understand most TV news and current affairs programmes. I can understand the majority of films in standard dialect.	I can understand extended speech even when it is not clearly structured and when relationships are only implied and not signalled explicitly. I can understand television programmes and films without too much effort.	I have no difficulty in understanding any kind of spoken language, whether live or broadcast, even when delivered at fast native speed, provided I have some time to get familiar with the accent.
	 Reading	I can understand familiar names, words and very simple sentences, for example on notices and posters or in catalogues.	I can read very short, simple texts. I can find specific, predictable information in simple everyday material such as advertisements, prospectuses, menus and timetables and I can understand short simple personal letters.	I can understand texts that consist mainly of high frequency everyday or job-related language. I can understand the description of events, feelings and wishes in personal letters.	I can read articles and reports concerned with contemporary problems in which the writers adopt particular attitudes or viewpoints. I can understand contemporary literary prose.	I can understand long and complex factual and literary texts, appreciating distinctions of style. I can understand specialised articles and longer technical instructions, even when they do not relate to my field.	I can read with ease virtually all forms of the written language, including abstract, structurally or linguistically complex texts such as manuals, specialised articles and literary works.
Speaking	 Spoken interaction]	I can interact in a simple way provided the other person is prepared to repeat or rephrase things at a slower rate of speech and help me formulate what I'm trying to say. I can ask and answer simple questions in areas of immediate need or on very familiar topics.	I can communicate in simple and routine tasks requiring a simple and direct exchange of information on familiar topics and activities. I can handle very short social exchanges, even though I can't usually understand enough to keep the conversation going myself.	I can deal with most situations likely to arise whilst travelling in an area where the language is spoken. I can enter unprepared into conversation on topics that are familiar, of personal interest or pertinent to everyday life (e.g. family, hobbies, work, travel and current events).	I can interact with a degree of fluency and spontaneity that makes regular interaction with native speakers quite possible. I can take an active part in discussion in familiar contexts, accounting for and sustaining my views.	I can express myself fluently and spontaneously without much obvious searching for expressions. I can use language flexibly and effectively for social and professional purposes. I can formulate ideas and opinions with precision and relate my contribution skilfully to those of other speakers.	I can take part effortlessly in any conversation or discussion and have a good familiarity with idiomatic expressions and colloquialisms. I can express myself fluently and convey finer shades of meaning precisely. If I do have a problem I can backtrack and restructure around the difficulty so smoothly that other people are hardly aware of it.
	 Spoken production	I can use simple phrases and sentences to describe where I live and people I know.	I can use a series of phrases and sentences to describe in simple terms my family and other people, living conditions, my educational background and my present or most recent job.	I can connect phrases in a simple way in order to describe experiences and events, my dreams, hopes and ambitions. I can briefly give reasons and explanations for opinions and plans. I can narrate a story or relate the plot of a book or film and describe my reactions.	I can present clear, detailed descriptions on a wide range of subjects related to my field of interest. I can explain a viewpoint on a topical issue giving the advantages and disadvantages of various options.	I can present clear, detailed descriptions of complex subjects integrating sub-themes, developing particular points and rounding off with an appropriate conclusion.	I can present a clear, smoothly-flowing description or argument in a style appropriate to the context and with an effective logical structure which helps the recipient to notice and remember significant points.
Writing	 Writing	I can write a short, simple postcard, for example sending holiday greetings. I can fill in forms with personal details, for example entering my name, nationality and address on a hotel registration form.	I can write short, simple notes and messages. I can write a very simple personal letter, for example thanking someone for something.	I can write simple connected text on topics which are familiar or of personal interest. I can write personal letters describing experiences and impressions.	I can write clear, detailed text on a wide range of subjects related to my interests. I can write an essay or report, passing on information or giving reasons in support of or against a particular point of view. I can write letters highlighting the personal significance of events and experiences.	I can express myself in clear, well-structured text, expressing points of view at some length. I can write about complex subjects in a letter, an essay or a report, underlining what I consider to be the salient issues. I can select a style appropriate to the reader in mind.	I can write clear, smoothly-flowing text in an appropriate style. I can write complex letters, reports or articles which present a case with an effective logical structure which helps the recipient to notice and remember significant points. I can write summaries and reviews of professional or literary works.

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