

PERSONAL INFORMATION Panagiotis Kolliniatis

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 ✉️ pkolliniatis@chi.civil.ntua.gr
 Sex: Male | Date of birth: Sep 1986 | Nationality: Greek

PERSONAL STATEMENT Water Resources Engineer / Chemical Engineer

WORK EXPERIENCE

- 2017 – Present **Water Resources Engineer**
 Centre for Hydrology and Informatics (CHI), Department of Water Resources & Environmental Engineering, School of Civil Engineering, National Technical University of Athens (NTUA)
 - Scientific support to EU research project MARS on issues related to emissions and water quality.
 - EEA consultant in European Topic Centre on Inland, Coastal & Marine Waters (ETC/ICM) and in ENI-SEIS East project.

- 2009 – Present **Water Resources Engineer / Chemical Engineer**
 OMITEM S.A. Consulting Engineers
 Providing Consulting services mainly for large scale projects of the public sector in the field of hydraulic engineering and water resources management. Involved in design, modelling, management and supervision of water-related projects including:
 - Urban drainage and sewerage networks
 - Water and wastewater treatment plants
 - Water supply systems
 - Irrigation networks
 - Flood protection works, river and stream training works
 - Hydrological studies
 - Environmental Impact Assessment Studies
 - Project planning

EDUCATION AND TRAINING

- 2013 **MSc in Water Quality and Environmental Technology**
 Interdisciplinary Interdepartmental Program of Postgraduate Studies “Water Resources Science and Technology”, School of Civil Engineering, National Technical University of Athens (NTUA)
 Thesis: “Mathematical modelling of anaerobic biological reduction of hexavalent chromium in a Sequencing Batch Reactor”

- 2011 **Diploma/MEng in Chemical Engineering**
 Department of Process Analysis and Plant Design, School of Chemical Engineering, National Technical University of Athens (NTUA)
 Thesis: “Treatment of synthetic municipal wastewater using Fenton’s reagents”

PERSONAL SKILLS

Mother tongue(s)	Greek				
	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	Writing
English	C1	C1	C1	C1	C1
French	University of Cambridge – “Certificate of proficiency in English”				
	B2	B2	B2	B2	B2
Chinese	DELTA 1er degré (Unités A1-A2-A3-A4)				
	A1		A1	A1	
	Hanyu Shuiping Kaoshi 1				

Digital competence

SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Independent user	Proficient user

SOFTWARE PACKAGES

Office software:	Microsoft Office (Excel, Word, Access, Powerpoint & Macro programming skills), OpenOffice
Design suites:	Autocad Civil 3D, Dassault DraftSight
GIS software:	ArcGIS, QGIS, Global Mapper
Hydraulic-hydrologic modelling software:	HEC-RAS, HEC-HMS, FLO-2D, MIKE11, ECOLAB, EPANET, SWMM, BASINS, iRIC)
Programming Languages:	FORTRAN, Visual Basic, Lisp, php, html

ADDITIONAL INFORMATION

Memberships

- Technical Chamber of Greece
- Panhellenic Society of Chemical Engineers
- Ministry of Infrastructure - Registry of Consultant Engineers: Licence Cat. 18/A (Chemical studies)

Participation in research projects

MARS: Managing Aquatic ecosystems and water Resources under multiple Stress

DG Research - FP7. 2014-2018 (ongoing).

MARS conducts new research and synthesis of existing knowledge regarding the impacts of multiple pressures (stressors) on water resources and aquatic ecosystems. The work was organized on the scale of water body, river basin and Europe and it included:

- Flume and mesocosm experiments to better understand the impacts of selected combinations of pressures with a focus on extremes and hydrological stress.
- Linkage of “abiotic” and “biotic” models to predict the impacts of multiple stressors on a river basin scale.
- Large-scale data analysis employing existing databases, but including additional variables, to gain a Europe-wide overview of pressure, status and ecosystem services.

On each scale, there is a direct link of the project to water managers and decision makers, as MARS aims to support them in the practical implementation of the WFD, the related legislation and the Blueprint to Safeguard Europe’s Water Resources. The lessons from MARS could help revise the WFD and advise the 3rd RMBP cycle. MARS also acts as an integrating project, engaging with other ongoing or finalized European initiatives addressing similar topics.

CHI is actively involved in the investigation of the link between hydrologic alterations and ecological status on European scale, the development of a European-wide geodatabase on freshwater pressures, the regionalisation and modelling of RCP-based storylines (Fragmented/Consensus/Techno World), the development of a scenario analysis tool, and the assessment of risk and resilience of aquatic ecosystems in Europe. In addition, it is responsible for the coordination of a case study from central Greece (Pinios river basin) and for the coordination of the case-studies from southern Europe.

Participation in consulting projects

ETC/ICM: European Topic Centre on Inland, Coastal and Marine Waters (previous ETC/Water)

2007-2018 (ongoing) (3 Framework contracts)

ETC-ICM supports EEA by providing integrated assessments of water quality, quantity, abstraction, use and emissions, tracking progress and providing outlooks on the achievement of EU water policy targets and quality assurance schemes. Integrated assessments are supported by up-to-date or, where possible, near-real-time data, indicators, models and analyses. ETC-ICM also provides technical support to WISE SoE reporting and maintenance of freshwater and marine dataflows. Overall, support to EEA follows the MDIAK chain (M: Monitoring, D: Data, I: Indicators, A: Assessments, K: Knowledge).

CHI provides scientific and technical expertise on the following issues:

- Implementation of Water Quantity and Quality Accounts in Europe using the United Nations System of Environmental-Economic Accounting Framework (UN SEEA-F).
- Implementation, update and assessment of an indicator related to water exploitation and water scarcity (CSI 018: WEI+).

- Development, implementation and assessment of an indicator related to water intensity of crop production (WAT 006; previously WREI 004).
- Update and assessment of an agri-environmental indicator related to water abstraction for agricultural purposes (AEI 20: Water abstraction).
- Development of assessments related to the Use of freshwater resources, Water use by tourism, Water resource efficiency and Water retention capacity of forests.
- Assessment of the quantitative status of groundwater bodies in Europe using the reporting under WFD 2016 (2nd cycle of River Basin Management Plans).
- Maintenance and update of WISE SoE dataflows and reporting.

ENI-SEIS East: Support for the implementation of the ENI-SEIS East 2017-2018 regional and country work plans in the thematic area of water

EEA. 2017-2018 (ongoing).

The project aims at supporting countries from the Eastern region of the European Neighbourhood Policy (ENP) (i.e. Armenia, Azerbaijan, Belarus, Georgia, Moldova and Ukraine) to develop and extend their national environmental information systems in terms of institutional cooperation, content and infrastructure, while following the Shared Environmental Information System (SEIS) principles. ETC/ICM partners provide capacity building to the respective countries for implementing selected water related indicators, in line with international standards and guidelines, and supporting the development of the online data and indicator management. The project includes the organisation of online survey on data catalogues, the development of data dictionaries, the organisation of technical workshops and hands-on training, the provision of helpdesk support and the technical support to public consultation.

CHI is involved in all task of the project providing scientific and technical expertise on the United Nations System of Environmental-Economic Accounting Framework (UN SEEA-F), the United Nations Economic Commission for Europe (UNECE) Guidelines for the application of environmental indicators, the United Nations Statistical Commission (UNSC) International Recommendations for Water Statistics (IRWS) and the WISE SoE data dictionaries.

Participation in studies

- Design of flood protection works for Podoniftis stream (Final study) / Municipality of Chalandri, Greece
- Design of stormwater drainage network of Polydroso / Municipality of Chalandri, Greece
- Flood protection works for TITAN Cement Co. "Katavothra" clay quarry - Transformation into a water reservoir / TITAN Cement Co., Greece
- Design of flood protection works for Podoniftis stream (Conceptual design) / Municipality of Chalandri, Greece
- Stormwater drainage network of Nea Lesvos / Municipality of Marousi, Greece
- Design of Flood Protection System for the Complex of Streams: Tholos - Nea Petra, Sisamia, Kastrolakkas in Serres / Prefectural Authority of Central Macedonia, Greece
- Environmental Assessment Studies for the Flood Protection System at the Complex of Streams: Tholos - Nea Petra, Sisamia, Kastrolakkas / Prefectural Authority of Central Macedonia, Greece
- Hydraulic Design of Kireas River Training Works in Evia / Sterea Ellada Region / Prefectural Authority of Evia, Greece
- Consultancy services for the 4th Industrial City of Jeddah / MODON - SALFO S.A., Saudi Arabia
- Consultancy services for the Jazan Industrial City of Jeddah / MODON - SALFO S.A., Saudi Arabia
- Hydraulic Design for the construction of stormwater drainage network pipes in Chalandri / Municipality of Chalandri, Greece