

PERSONAL INFORMATION

Maria Tsagkaraki

 Nea Alikamassos, 1922 No.5, 71601 Heralion Crete (Greece)

 6949438842

 tsagaraki-maria@hotmail.com

Sex Female | Date of birth 14/03/1990 | Nationality Greek

WORK EXPERIENCE

11/2011–Present

Analytical and Environmental Chemistry researcher

University of Crete, Department of Chemistry, Environmental Chemical Processes Laboratory, Heraklion Crete (Greece)

EDUCATION AND TRAINING

01/2015–Present

PhD Cadidate in Chemistry. "Nitrogen (N) and Phosphorous (P) speciation in atmosphere"

University of Crete, Department of Chemistry, Environmental Chemical Processes Laboratory, Heraklion Crete (Greece)

11/2011–07/2014

MSc in Analytical and Environmental Sciences entitled "Iron and Nitrogen speciation in the wet and dry deposition in the Eastern Mediterranean"

University of Crete, Department of Chemistry, Environmental Chemical Processes Laboratory, Heraklion Crete (Greece)

09/2007–09/2011

Chemistry Degree

University of Crete, Department of Chemistry

07/2011–09/2011

Internship in Chemical and Microbiological Analysis in Bottled, Drinking, Surface, Underground and Marine Waters.

General Laboratory of the State, Chemical Service of Rhodes, Rhodes (Greece)

02/2011–06/2011

Bachelor's thesis. Determination of linear alkylbenzenesulfonates in detergents using HPLC and a fluorescence detector. Grade 9.0 / 10

University of Crete, Department of Chemistry, Environmental Chemical Processes Laboratory, Heraklion Crete (Greece)

PERSONAL SKILLS

Mother tongue(s)

Greek

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

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 Excellent communication and team spirit.

Organisational / managerial skills Very good organizational and team-leading skills.

Responsible Supervision:

- Six (6) Bachelor's theses
- Four (4) MSc

Job-related skills

- Organization and methodical design of experimental techniques and their application for chemical analysis.
- Excellent knowledge of analytical data processing.

Digital skills

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

Digital skills - Self-assessment grid

Owner ECDL Progress Certificate

Very good handling MS Office, Windows 8 / 7 / Vista / XP, Origin 8.0, Photoshop, Chromeleon, ChemSketch.

ADDITIONAL INFORMATION

Laboratory experience and expertise

- Inductively Coupled Plasma Mass Spectrometry (ICP-MS) expert
- Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) expert
- PILS-LWCC-SRP, Particle into liquid sampler coupled with liquid waveguide capillary cell, for real-time measurements of water-soluble reactive phosphate expert
- Total Organic Carbon Analyzer with Total Nitrogen Unit (TOC-V_{CSH} Analyzer with TNM-1) expert
- OC/EC Analyzer expert
- High-performance liquid chromatography (HPLC)
- Iron speciation with Ferrozine colorimetric Method
- Organic Nitrogen analysis (Persulfate method)
- Ion chromatography
- Field analysis expert

Teaching experience

- 2009-2010 "General Chemistry I" Teaching Assistant, Department of Chemistry, University of Crete
- 2012-2013 "Analytical Chemistry I" Teaching Assistant, Department of Chemistry, University of Crete
- 2015-2016 "Analytical Chemistry I" Teaching Assistant, Department of Chemistry, University of Crete
- 2016-2017 "Analytical Chemistry II" Teaching Assistant, Department of Chemistry, University of Crete

Honours and awards

- **Owner Scholarship from the Hellenic Foundation For Research & Innovation (H.F.R.I.)** as PhD candidate of Department of Chemistry, University of Crete, 01/08/2017 - 31/05/2018.
- **BEST POSTER AWARD:** C.Theodosi, M. Tsagkaraki, P. Zampas, P. Nicolaou, J. Sciare, E.

Liakakou, D. Paraskevopoulou, M. Lianou, E. Gerasopoulos, and N. Mihalopoulos, "Chemical composition and sources of ambient aerosol in an urban environment over Athens, Greece: Case study on the role of wintertime biomass burning", European Geosciences Union General Assembly 2016 (EGU 2016), Vienna, Austria, 17-22 April 2010. (Poster Presentation).

- **Annual Scholarship of the "Maria Michael Manassaki" Legacy** for postgraduate studies at the School of Sciences and Engineering, University of Crete, as a reward for high performance, (2011-2012)
- **Annual Scholarship of the National Scholarship Foundation (IKY)** for the 1st place in the academic year 2009-2010 at the University of Crete, Department of Chemistry.
- **Award from the National Scholarships Foundation (IKY)** for distinction in studies (1st place) during the academic year 2009-2010 at the University of Crete, Department of Chemistry.

Publications

- I. Stavroulas, A. Bougiatioti, G. Grivas, D. Paraskevopoulou, M. Tsagkaraki, P. Zampas, E. Liakakou, E. Gerasopoulos and N. Mihalopoulos. "Sources and processes that control the submicron organic aerosol in an urban Mediterranean environment (Athens) using high temporal resolution chemical composition measurements". Manuscript under final revision for journal Atmospheric Chemistry and Physics, . Discussion started: 2018.
- J. P. S. Wong, M. Tsagkaraki, I. Tsiodra, N. Mihalopoulos, K. Violaki, M. Kanakidou, J. Sciare, A. Nenes and R. J. Weber. "Atmospheric Evolution of Molecular Weight Separated Brown Carbon from Biomass Burning". Manuscript under review for journal Atmospheric Chemistry and Physics, <https://doi.org/10.5194/acp-2018-903>. Discussion started: 5 September 2018.
- C. Theodosi, M. Tsagkaraki, P. Zampas, E. Liakakou, G. Grivas, D. Paraskevopoulou, M. Lianou, E. Gerasopoulos and N. Mihalopoulos. "Multiyear chemical composition of the fine aerosol fraction in Athens, Greece, with emphasis on winter-time residential heating". Manuscript in press for journal Atmospheric Chemistry and Physics, <https://doi.org/10.5194/acp-2018-163>. Discussion started: 27 March 2018.
- C. Theodosi, M. Tsagkaraki, P. Zampas, P. Nikolaou, D. Paraskevopoulou, E. Liakakou, M. Lianou, E. Gerasopoulos, and N. Mihalopoulos. "Aerosol Chemical Mass Closure in Athens, Greece: Towards a Better Understanding of the Seasonal Variation of Aerosol Sources in the Area." In Perspectives on Atmospheric Sciences, 853–59. Springer International Publishing, 2017.
- A. Bougiatioti, A. Papayannis, S. Vratolis, A. Argrouli, N. Mihalopoulos, M. Tsagkaraki, A. Nenes and K. Eleftheriadis. "Aerosol Activity and Hygroscopicity Combined with Lidar Data in the Urban Atmosphere of Athens, Greece in the Frame of the HYGRA_CD Campaign." **Article in The European Physical Journal Conferences** 119:15008 January 2016 with 4 Reads DOI: 10.1051/epjconf/201611915008.

Conferences

- M. Tsagkaraki, C. Theodosi, G. Grivas, A. Metaxatos, P. Zampas, E. Liakakou, E. Gerasopoulos, N. Mihalopoulos, "Navarino Environmental Observatory: Part II Chemical composition and sources of aerosols", 14th International Conference on Meteorology, Climatology and Atmospheric Physics, **COMECAP 2018**, Alexandroupolis, Greece 15-17 October 2018 (Poster Presentation)
- D. Paraskevopoulou, I. Tsiodra, A. Bougiatioti, M. Tsagkaraki, R. Weber, A. Nenes, N. Mihalopoulos, "ROS-generating capacity of particulate matter over two cities in Eastern Mediterranean", 20th **International Aerosol Conference**, 2 – 7 September 2018, Saint Louis, Missouri, USA. (Poster Presentation)
- I. Tsiodra, M. Tsagkaraki, P. Zampas, K. Violaki, R. Weber, A. Nenes and N. Mihalopoulos, "The atmospheric delivery and controls of soluble P in the E. Mediterranean", European Geosciences Union General Assembly 2018 (**EGU 2018**), Vienna, Austria, 8- 13 April 2018. (Oral Presentation)
- International Conference entitled «10th International Conference on Instrumental Methods of analysis: Modern Trends and Applications» (**IMA-2017**), held in Heraklion, Greece, September 17-21, 2017.
- C. Theodosi, M. Tsagkaraki, P. Zampas, P. Nicolaou, J. Sciare, E. Liakakou, D. Paraskevopoulou, M. Lianou, E. Gerasopoulos, and N. Mihalopoulos, "Chemical composition and sources of ambient aerosol in an urban environment over Athens, Greece: Case study on the role of wintertime biomass burning", European Geosciences Union General Assembly 2016 (**EGU 2016**), Vienna, Austria, 17-22 April 2010. (Poster Presentation)
- C. Theodosi, M. Tsagkaraki, P. Zampas, D. Paraskevopoulou, P. Nicolaou, E. Liakakou, M. Lianou, E. Gerasopoulos, and N. Mihalopoulos, "Chemical composition and mass closure of ambient aerosol in an urban environment over Athens, Greece: The role of wintertime biomass burning on air pollution levels", **European Aerosol Conference 2016**, Tours, France, 04-09 September 2016

(Oral Presentation)

- J. Sciare, S. Vermeesch, A. Patron-Anquez, K. Oikonomou, M. Tsagaraki and N. Mihalopoulos, "Evaluation of the impact of quarrying activities on PM concentration and chemical composition: First results of the EMCAIR project", **European Aerosol Conference 2016**, Tours, France, 04-09 September 2016 (Poster Presentation)
- C. Theodosi, M. Tsagaraki, P. Zampas, P. Nicolaou, D. Paraskevopoulou, E. Liakakou, M. Lianou, E. Gerasopoulos, and N. Mihalopoulos, "Aerosol chemical mass closure in Athens, Greece: towards a better understanding of the seasonal variation of aerosol sources in the area", 13th International Conference on Meteorology, Climatology and Atmospheric Physics, **COMECAP 2016**, Thessaloniki, Greece, 19-21 September 2016 (Oral Presentation)
- Mitsotaki, A., Tsagaraki, M., Mihalopoulos, «Long-term measurements of atmospheric Nitrogen speciation in the Mediterranean: Importance for biogeochemical N cycle ». **11th National Symposium of Oceanography and Fisheries**, Mytilene, Lesbos, Greece 2015. (Oral Presentation).
- International Conference entitled «Advance in Atmospheric Science and Applications», **ATMOS 2015**, at Heraklion, Crete, 18-21 June 2015.
- International Conference entitled « 12th International Conference on Meteorology, Climatology and Atmospheric Physics», **COMECAP 2014** that took place in Heraklion, Crete from 27-31 May 2014.
- International Conference entitled «Sharing data information in the Eastern Mediterranean and the Middle East» at Kolymbari, Crete, 23-25 July 2013.

Seminars

- «**1st HAAR Summer School**» on theory and practice of aerosol chemistry and engineering for climate, air quality, emissions and health effects (by means of In-Situ and Remote Sensing Observations), held at the Navarino Environmental Observatory (NEO), Messinia, Greece, from 18-25/05/2016
- «**Oenology Program**» at School of Sciences and Engineering, University of Crete, (2013-2014).
- Certified Auditor/Lead Auditor of Food Safety Management Systems according to ISO 22000:2005 Series Standards, IQMS/TUV HELLAS (Member of TUV Nord Group) (4-8/12/2013)
- Ion chromatography, high pressure ion chromatography, capillary ion chromatography, thermo fischer scientific-dionex, Heraklion October 8, 2013
- Seminar in «Gas chromatography coupled with Mass Spectrometry (GC / MS) », organized by the Association of Greek Chemicals, Regional Department of Crete, Heraklion 06/04/2013