



## ► Konstantina Diamanti

**Ph.D. candidate** at National and Kapodistrian University of Athens

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### Education

**B.Sc. in Chemistry (2011-2015)**, National and Kapodistrian University of Athens, Grade: 8.92/10

**M.Sc. in Chemical Analysis - Quality Control (2015-2017)**, National and Kapodistrian University of Athens, Grade: 9.43/10

**Ph.D. in Analytical Chemistry (2020-present)**, National and Kapodistrian University of Athens

### Professional Experience

**Innovation and Advanced Technologies Officer (10/2019-07/2020)**, Qualimetrix S.A.

Sophisticated analytical services to support pharmaceutical products throughout their whole lifecycle in an environment of Good Manufacturing Practices (GMP) and Good Laboratory Practices (GLP)

### Research Topics

**Undergraduate Thesis:** "Development of MS and MS/MS spectral libraries for target screening of emerging contaminants by LC-QTOF-MS", Laboratory of Analytical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Greece (2015)

**Master Thesis:** "Retrospective target and suspect screening of new psychoactive substances in raw wastewater by Liquid Chromatography - Quadrupole-Time-of-flight Mass Spectrometry (LC-QTOF-MS)", Laboratory of Analytical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Greece (2016-2017)

**Ph.D. Thesis:** "Development of untargeted screening methods by mass spectrometry in biological samples for investigation of environmental exposure to chemicals", Laboratory of Analytical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Greece (2020-present)

### Research Interests

#### General research interests:

High resolution mass spectrometry (HRMS), Tandem mass spectrometry (MS/MS), Ion mobility spectrometry (IMS), Liquid and Gas Chromatography (LC & GC), Mass spectrometry imaging (MSI), Method development and validation, Advanced data treatment of HRMS data, Target / suspect / non-target screening

Exposomics, Human biomonitoring, Environmental monitoring, Ecotoxicological risk assessment, Wastewater-based epidemiology, Extractables and leachables testing, *In vitro* release and *in vitro* skin permeation studies for topical drug products

**Projects:**

- **2022:** Analysis of metals and organic pollutants in biota samples (livers and bird eggs) (*funding:* LUBW Landesanstalt für Umwelt, Baden-Württemberg, <https://www.lubw.baden-wuerttemberg.de/startseite>)
- **2022:** Baltic Marine Environment Protection Commission (HELCOM): A pre-emptive study of the inputs of hazardous substances to the Baltic Sea (HELCOM Pre-EMPT) (*funding:* NEFCO (Nordic Environment Finance Corporation) under the Baltic Sea Action Plan Fund, <https://portal.helcom.fi/default.aspx>)
- **2021:** Determination of chemicals in wastewater and correlation with SARS-Cov-2 (*funding:* National Public Health Organization, <https://eody.gov.gr/dimioyrgia-ethnikoy-diktyoy-epidimiologias-lymatongia-tin-parakoloythisi-apotyposi-kai-egkairi-proeidopoiisi-tis-diasporas-toy-ioy-sars-cov-2-stin-koinotita/>)
- **2020:** European Union Water Initiative Plus for the Eastern Partnership (EUWI+): Dniro River Basin Management Plan (*funding:* International Office for Water (IOW), <https://euwipluseast.eu/en/>)
- **2019:** Research on identification of chemical status of surface water bodies of the Dniester river basin (*funding:* Organization for Security and Co-operation in Europe (OSCE) – Project Co-ordinator in Ukraine, <https://www.osce.org/project-coordinator-in-ukraine/environmental-activities>)
- **2016-2017:** Improving environmental monitoring in the Black Sea, phase 2-EMBLAS-II (Georgia, Ukraine): Analysis of water framework directive priority substances and screening of black sea specific pollutants in water, biota and sediment samples obtained during the National Pilot Monitoring Studies and Joint Open Sea Surveys and risk assessment of identified pollutants (*funding:* European Union / United Nations Development Programme, <http://emblasproject.org/>)

**Publications in Journals**

1. **Konstantina S. Diamanti**, Nikoforos A. Alygizakis, Maria-Christina Nika, Martina Oswaldova, Peter Oswald, Nikolaos S. Thomaidis, Jaroslav Slobodnik “Assessment of the chemical pollution status of the Dniester River Basin by wide-scope target and suspect screening using mass spectrometric techniques”, *Analytical and Bioanalytical Chemistry*, **2020**, 412, 4893-4907 (doi: 10.1007/s00216-020-02648-y)
2. **Konstantina Diamanti**, Reza Aalizadeh, Nikoforos Alygizakis, Aikaterini Galani, Marie Mardal, Nikolaos S. Thomaidis “Wide-scope target and suspect screening methodologies to investigate the occurrence of new psychoactive substances in influent wastewater from Athens”, *Science of the Total Environment*, **2019**, 685, 1058-1065 (doi: 10.1016/j.scitotenv.2019.06.173)
3. Marie Mardal, Mette Findal Andreasen, Christian Brinch Mollerup, Peter Stockham, Rasmus Telving, Nikolaos S. Thomaidis, **Konstantina S. Diamanti**, Kristian Linnet, Petur Weihe Dalsgaard “HighResNPS.com: An online crowd-sourced HR-MS database for suspect and non-targeted screening of new psychoactive substances”, *Journal of Analytical Toxicology*, **2019**, 43 (7), 520-527, (doi: 10.1093/jat/bkz030)

*(Citations: 92, h-index: 3)*

**Conferences Presentations**

1. **Diamanti K. S.**, Damalas D. E., Gkotsis G. O., Panagopoulou E. I., Nika M. C., Baessmann C., Galvin B., Thomaidis N. S., “Development of a LC-ESI-TIMS-QTOFMS database to enhance the performance of wide-scope target screening in environmental (bio)monitoring studies”, **Oral Presentation**, IMSC 2022, Maastricht Exhibition & Congress Center (MECC), Maastricht, the Netherlands 27/08-02/09/2022
2. **Diamanti K. S.**, Damalas D. E., Gkotsis G. O., Panagopoulou E. I., Nika M. C., **Baessmann C.**, Galvin B., Thomaidis N. S., “Enhanced performance of 4D wide-scope target screening in environmental (bio)monitoring studies utilizing LC-ESI-TIMS-QTOF-MS and a comprehensive database”, **Poster Presentation**, ASMS Conference on Mass Spectrometry and Allied Topics, Minneapolis Convention Center, Minneapolis Minnesota USA 05-09/06/2022
3. **Diamanti K. S.**, Damalas D. E., Gkotsis G., Panagopoulou E. I., Nika M. C., Baessmann C., Galvin B., Thomaidis N. S., “Collision Cross Section (CCS) value as an additional identification point for chemical

characterization: Development of a LC-ESI-TIMS-QTOFMS database for environmental (bio)monitoring studies”, **Onsite Poster Presentation**, SETAC Europe 32nd Annual Meeting, Bella Center Copenhagen, Copenhagen Denmark 15-19/05/**2022**

4. **Diamanti K.**, Nika M. C., Alygizakis N., Kostakis M., Koupa A., Oswald P., Cirka L., Slobodnik J., Thomaidis N. S., “Water quality monitoring in the Dnieper River Basin using advanced analytical methodologies”, **Poster/Flash Presentation**, 17<sup>th</sup> International Conference on Environmental Science and Technology (CEST2021), Central building of National and Kapodistrian University of Athens (Propylaea), Athens Greece 01-04/09/**2021**
5. **Diamanti K.**, Mardal M., Papoutsopoulou-Diamantopoulou C., **Thomaidis N.**, “Occurrence of controlled illicit drugs and new psychoactive substances in raw wastewater samples from Athens, Greece, analyzed by LC-QTOF-MS”, **Oral Presentation**, Testing the waters 2017 (3rd international conference) – Wastewater-based epidemiology: current applications and future perspectives, Lisbon Congress Centre, Lisbon Portugal 26-27/10/**2017**
6. Nika M. C., Koulis G., Damalas D., **Diamanti K.**, Bletsou A. A., Psoma A., Attiti S., Aalizadeh R., Alygizakis N., Dasenaki M., Kasiotis K. M., Oswald P., Slobodnik J., **Thomaidis N. S.**, “Determination of legacy pollutants and emerging contaminants in the marine environment of Black Sea”, **Oral Presentation**, 15<sup>th</sup> International Conference on Environmental Science and Technology (CEST2017), Rodos Palace International Convention Center, Rhodes Greece 31/08-02/09/**2017**
7. **Diamanti K.**, Thomaidis N. S., “Target and suspect screening approaches for the identification of new psychoactive substances in raw wastewater samples from Athens by LC-QTOF-MS”, **Oral Presentation**, 15<sup>th</sup> International Conference on Environmental Science and Technology (CEST2017), Rodos Palace International Convention Center, Rhodes Greece 31/08-02/09/**2017**
8. **Diamanti K.**, Bletsou A., Damalas D., Thomaidis N. S., “Target screening of emerging contaminants in raw wastewater samples from Athens using LC-QTOF-MS”, **Poster Presentation**, 22nd Hellenic Chemistry Conference: “Chemistry: Research and Education aiming at Sustainable Energy”, Aristotle University Research Dissemination Center, Thessaloniki Greece 02-04/12/**2016 (Awarded)**

## Awards and Honors

1. **Scholarship** for the preparation of the doctoral thesis by the Hellenic Foundation for Research and Innovation (H.F.R.I.) (**2022-2025**)
2. **Partial scholarship** for assisting in teaching in Analytical Chemistry subjects in the Department of Chemistry of National and Kapodistrian University of Athens during the 2<sup>nd</sup> semester of **2021-2022**
3. **Educational grant** for Ph.D. studies by the A. G. Leventis Foundation (**2021-2022**)
4. **Partial scholarship** for assisting in teaching in Analytical Chemistry subjects in the Department of Chemistry of National and Kapodistrian University of Athens during the 2<sup>nd</sup> semester of **2020-2021**
5. **Prize** for the best poster presentation from European Young Chemists’ Network (EYCN) during the 22nd Hellenic Chemistry Conference: “Chemistry: Research and Education aiming at Sustainable Energy”, Thessaloniki Greece 02-04/12/**2016**
6. **Scholarship** by Zois Soutsou Legacy for graduate studies (**2015-2016**)
7. **Scholarship** and **award** by State Scholarships Foundation (I.K.Y.) after ranking first in grades in the first year of undergraduate studies in Chemistry (**2011-2012**)
8. **Scholarship** by Triantafillidis Legacy for undergraduate studies, granted after examination (**2011-2015**)

## Languages

**Greek**, Native speaker

**English**, Proficient speaker (Certificate of Proficiency in English, University of Michigan, 2009)

**German**, Proficient speaker (Goethe-Zertifikat C1, Goethe Institut, 2019)

## Professional Affiliations

- Hellenic Mass Spectrometry Society, 2022-present
- Working group 7 for 'Contaminants of emerging concern in soil and the terrestrial environment' in the NORMAN Network, 2020-present
- Cross-working group for 'Non-target screening' in the NORMAN Network, 2020-present
- Association of Greek Chemists, 2016-present

## Contact information

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