

1 IDENTIFICATION

Name: Anabela Cachada

Institutional Address: Interdisciplinary Centre of Marine and Environmental Research (CIIMAR), University of Porto, Terminal de Cruzeiros do Porto de Leixões, Av. General Norton de Matos s/n, 4450-208 Matosinhos, Portugal

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2 ACADEMIC QUALIFICATIONS AND OTHERS

2.1 ACADEMIC DEGREES

2014| PhD in Chemistry. University of Aveiro, Portugal. Approved by unanimity.

2007| Master in Geochemistry, University of Aveiro. Portugal. Approved by unanimity.

2001| Graduation in Environmental Engineering and of the Natural Resources, University of Trás-os-Montes e Alto Douro, Portugal. Final classification: 14 values.

2.2 COMPLEMENTARY EDUCATION AND TRAINING

2014| Summer school “(Bio)Analytical strategies for speciation and ecotoxicity studies”. Universidad Complutense de Madrid, Madrid (Spain), 20-23 May 2014.

2014| Fall School “Quality of the environment and European legislation: bioindicators”. Université de Pau et des Pays de l'Adour, Pau (France), 8-11 October 2014.

2012| Practical course “Action 1 – Multivariate Statistical Analysis”, UNAVE, University of Aveiro (Portugal), 5-10 November 2012 (total of 21 hours).

2010| Advanced course on risk assessment of contaminated sites. CESAM & Department of Biology, University of Aveiro (Portugal), 8-12 February 2010.

2006| Training course on Analytical Quality Control and method validation in support to the Water Framework Directive ‘TAQC - WFD’, Msida (Malta), 28-30 September 2006.

3 PREVIOUS ACTIVITIES AND CURRENT POSITION

2015 - until now | Post-doctoral fellow at CIIMAR (University of Porto) & CESAM (University of Aveiro), funded by Fundação para a Ciência e a Tecnologia (SFRH/BPD/100429/2014). Scientific research under the theme “*Development of a methodology to assess the environmental quality of vineyard soils*”.

2012-2013 | Research fellow at CESAM (University of Aveiro), in the scope of the SUDOE project “*ORQUE-SUODE - Research Centre for Environmental Quality of Southwest Europe*” (SOE3/P2/F591). Main activities: Establishment of monitoring strategies for environmental quality in natural areas within the Southwest Europe. Development and application of analytical methods for evaluating the presence of organic and inorganic contaminants in bivalves. Participation in various dissemination initiatives.

2008 - 2012 | Doctoral fellow at CESAM (University of Aveiro), funded by Fundação para a Ciência e a Tecnologia (SFRH/BD/38418/2007). PhD student under the theme “*Organic contaminants in urban soils: major inputs and potential risks*”.

2005 - 2008 | Research fellowship at CESAM (University of Aveiro), in the scope of the FCT project “*SOLURB - Development of methodologies for assessment of environmental quality in urban soils*” (POCTI/CTA/44851/2002). Main activities: Determination of evaluation parameters of soil quality, including extraction and determination of organic compounds (PAHs and PCBs) and inorganic (potentially toxic elements).

2003 - 2004 | Research fellowship at CESAM (University of Aveiro), in the scope of the FP5 EU research project “*URBSOIL – Urban soils as a source and sink for pollution: towards a common European methodology for the evaluation of their environmental quality as a tool for sustainable resource management*” (EVK4-CT-2001-00053). Main activities: Determination of evaluation parameters of soil quality, including extraction and determination of organic compounds (PAHs and PCBs) in urban soils.

2003 - 2004 | Coordination team responsible for the inventory of water and wastewater supply systems in the centre region. *INSAAR - National inventory of water and wastewater supply systems*. Department of Chemistry, University of Aveiro.

2001 - 2002 | Trainee at Centro Ricerche Ambientali Montecatini (Ravenna, Italy), under the European program *Leonardo da Vinci*. Project title: “*Ecotoxicity: Pseudomonas fluorescens validation test on various matrices. Study of Vibrio fischeri activity in ecotoxicology.*”

4 SPECIALIZATION/SCIENTIFIC INTERESTS

- ✓ Soil quality assessment
- ✓ Evaluation of mobility, bioavailability, and bioaccessibility of organic and inorganic contaminants in soils
- ✓ Geochemistry of urban soils
- ✓ Risk assessment of contaminated soils (human health and environment)
- ✓ Terrestrial ecotoxicology
- ✓ Environmental and Analytical Chemistry
- ✓ Determination of organic contaminants in different environmental matrixes

5 SCIENTIFIC PRODUCTION

5.1 THESIS

1. Cachada A., **2014**. Organic contaminants in urban soils: major inputs and potential risks. PhD Thesis. Department of Chemistry, University of Aveiro. Aveiro. 224 pp.
2. Cachada A., **2007**. Geochemistry and environmental quality of urban soils. Master Thesis. Department of Geosciences. University of Aveiro. Aveiro. 155pp

5.2 BOOKS

1. Soil Pollution: From Monitoring to Remediation. Armando Duarte, Anabela Cachada, Teresa Rocha-Santos (Ed.) 1st Edition. Academic Press, **2018**. ISBN: 9780128498736.

5.3 BOOK CHAPTERS

1. Cachada, A., Rocha-Santos, T., Duarte, A.C., **2018**. Soil and Pollution: An Introduction to the Main Issues. in: Duarte, A.C., Cachada, A., Rocha-Santos, T. (Eds.). Soil Pollution: From Monitoring to Remediation. 1st Edition. Academic Press.
2. Pereira, R., Cachada, A., Sousa, J.P., Niemeyer, J., Markwiese, J., Andersen, C.P., **2018**. Ecotoxicological Effects and Risk Assessment of Pollutants. in: Duarte, A.C., Cachada, A., Rocha-Santos, T. (Eds.). Soil Pollution: From Monitoring to Remediation. 1st Edition. Academic Press.

5.4 PUBLICATIONS IN ISI JOURNALS

1. Rodríguez-Seijo A., Santos B., Ferreira da Silva E., Cachada A., Pereira R. (**in press**). Low-density polyethylene microplastics as a source and carriers of agrochemicals to soil and earthworms. *Environmental Chemistry*.
2. Patinha C., Durães N., Dias A.C., Pato P., Fonseca R., Janeiro A., Barriga F., Reis A.P., Duarte A., Ferreira da Silva E., Sousa A.J., Cachada A. (**2018**). Long-term application of the organic and inorganic pesticides in vineyards: Environmental record of past use. *Applied Geochemistry* 88, 226-238. <https://doi.org/10.1016/j.apgeochem.2017.05.014>;

3. **Cachada A.**, Coelho C., Gavina A., Dias A.C., Patinha C., Reis A. P., Ferreira da Silva E., Duarte A.C., Pereira R. (2018). Availability of polycyclic aromatic hydrocarbons to earthworms in urban soils and its implications for risk assessment. *Chemosphere* 191, 196-203. <https://doi.org/10.1016/j.chemosphere.2017.10.013>
4. Rodríguez-Seijo A., **Cachada A.**, Gavina A., Duarte A.C., Vega F.A., Andrade M.L., Pereira R. (2017). Lead and PAHs contamination of an old shooting range: A case study with a holistic approach. *Science of the Total Environment* 575, 367-377. <http://dx.doi.org/10.1016/j.scitotenv.2016.10.018>
5. Marinho Reis A.P., Shepherd T., Nowell G., **Cachada A.**, Duarte A.C., Cave M., Wragg J., Patinha, C., Dias A., Rocha F., da Silva E.F., Sousa A.J., Prazeres, C., Batista, M.J. (2016). Source and pathway analysis of lead and polycyclic aromatic hydrocarbons in Lisbon urban soils. *Science of the Total Environment* 573, 324-336. <http://dx.doi.org/10.1016/j.scitotenv.2016.08.119>
6. **Cachada A.**, Ferreira da Silva E., Duarte A.C., Pereira R. (2016). Risk assessment of urban soils contamination: the particular case of polycyclic aromatic hydrocarbons. *Science Of The Total Environment* 551–552, 271-284. <http://dx.doi.org/10.1016/j.scitotenv.2016.02.012>
7. Rada J.P.A., Duarte A.C., Pato P., **Cachada A.**, Carreira R. S. (2016) Sewage contamination of sediments from two Portuguese Atlantic coastal systems, revealed by fecal sterols. *Marine Pollution Bulletin* 103, 319-324. <http://dx.doi.org/10.1016/j.marpolbul.2016.01.010>
8. Foudeil S., Hassoun H., Lamhasni T., Lyazidi S.A., Benyaich F., Haddad M., Choukrad M., Boughdad A., Bounakhla M., Bounouira H., Duarte R.M.B.O., **Cachada A.**, Duarte A.C. (2015) Catalog of total excitation-emission and total synchronous fluorescence maps with synchronous fluorescence spectra of homologated fluorescent pesticides in large use in Morocco: development of a spectrometric low cost and direct analysis as an alert method in case of massive contamination of soils and waters by fluorescent pesticides. *Environmental Science And Pollution Research* 22 (9), 6766-6777. <http://dx.doi.org/10.1007/s10653-014-9605-8>
9. Chelinho S., Domene X., Andrés P., Natal-da-Luz T., Norte C., Rufino C., Lopes I., **Cachada A.**, Espíndola E., Ribeiro R., Duarte A.C., Sousa J.P: (2014). Soil microarthropod community testing: A new approach to increase the ecological relevance of effect data for pesticide risk assessment. *Applied Soil Ecology* 83, 200-209. <http://dx.doi.org/10.1016/j.apsoil.2013.06.009>
10. Reis A.P., Patinha C., Wragg J., Dias A. C., Cave M., Sousa A. J., Costa C., **Cachada A.**, Ferreira da Silva E., Rocha F., Duarte A. (2014). Geochemistry, mineralogy, solid-phase fractionation and oral bioaccessibility of lead in urban soils of Lisbon. *Environmental Geochemistry And Health* 36 (5), 867-881. <http://dx.doi.org/10.1007/s10653-014-9605-8>
11. **Cachada A.**, Pereira R., Ferreira da Silva E., Duarte A. C. (2014). The prediction of PAHs bioavailability in soils using chemical methods: state of the art and future challenges. *Science of the Total Environment* 472, 463-480. <http://dx.doi.org/10.1016/j.scitotenv.2013.11.038>
12. **Cachada A.**, Dias A.C., Pato P., Mieiro C., Rocha-Santos T., Pereira M.E., Ferreira da Silva E., Duarte A.C. (2013). Major inputs and mobility of potentially toxic elements contamination in urban areas. *Environmental Monitoring and Assessment* 185, 279-294. <http://dx.doi.org/10.1007/s10661-012-2553-9>

13. Santos M.J.G., Ferreira M.F.L., **Cachada A.**, Duarte A.C., Sousa J.P. (2012). Pesticide application to agricultural fields: effects on the reproduction and avoidance behavior of *Folsomia candida* and *Eisenia andrei*. *Ecotoxicology* 21 (8), 2113-2122. <http://dx.doi.org/10.1007/s10646-012-0963-7>
14. **Cachada A.**, Pato P., Rocha-Santos T., Ferreira da Silva E., Duarte A.C. (2012). Levels, sources and potential human health risks of organic pollutants in urban soils. *Science of the Total Environment* 430, 184-192. <http://dx.doi.org/10.1016/j.scitotenv.2012.04.075>
15. Caetano A.L., Gonçalves F., Sousa J.P., **Cachada A.**, Pereira E., Duarte A.C., Ferreira da Silva E., Pereira R. (2012). Characterization and validation of a Portuguese natural reference soil to be used as substrate for ecotoxicological purposes. *Journal of Environmental Monitoring* 14 (3), 925-936. <http://dx.doi.org/10.1039/c2em10827e>
16. Patinha C., Reis A.P., Dias C., **Cachada A.**, Adão R., Martins H., da Silva E.F., Sousa A.J. (2012). Lead availability in soils from Portugal's Centre Region with special reference to bioaccessibility. *Environmental Geochemistry and Health* 34 (2), 213-227. <http://dx.doi.org/10.1007/s10653-011-9431-1>
17. **Cachada A.**, Pereira M.E., Ferreira da Silva E., Duarte A.C. (2012). Sources of potentially toxic elements and organic pollutants in an urban area subjected to an industrial impact. *Environmental Monitoring and Assessment* 184 (1), 1. <http://dx.doi.org/10.1007/s10661-011-1943-8>
18. Chelinho S., Sautter K.D., **Cachada A.**, Abrantes I., Brown G., Duarte A.C., Sousa J.P. (2011). Carbofuran effects in soil nematode communities: using trait and taxonomic based approaches. *Ecotoxicology and Environmental Safety* 74 (7), 2002-2012. <http://dx.doi.org/10.1016/j.ecoenv.2011.07.015>
19. Marques C.R., Pereira R., Antunes S.C., **Cachada A.**, Duarte A.C., Gonçalves F. (2011). In situ aquatic bioassessment of pesticides applied on rice fields using a microalga and daphnids. *Science of Total Environment* 409 (18), 3375-85. <http://dx.doi.org/10.1016/j.scitotenv.2011.05.025>
20. Silva L., **Cachada A.**, Pereira R., Freitas A.C., Rocha-Santos T.A.P., Panteleitchouk T.S.L., Pereira M.E., Duarte A.C. (2011). Gas Chromatography - Optical Fiber detector for assessment of fatty acids in urban soils. *Talanta* 85, 222-229. <http://dx.doi.org/10.1016/j.talanta.2011.03.044>
21. Antunes S.C., Pereira J.L., **Cachada A.**, Duarte A.C., Gonçalves F., Sousa J.P., Pereira R. (2010). Structural effects of the bioavailable fraction of pesticides in soil: suitability of elutriate testing. *Journal of Hazardous Materials* 184, 215-225. <http://dx.doi.org/10.1016/j.jhazmat.2010.08.025>
22. Silva L.I.B., **Cachada A.**, Freitas A.C., Pereira R., Rocha-Santos T.A.P., Duarte A.C. (2010). Assessment of fatty acid as a differentiator of usages of urban soils. *Chemosphere* 81, 968-975. <http://dx.doi.org/10.1016/j.chemosphere.2010.07.050>
23. **Cachada A.**, Marques C., Pereira R., Gonçalves F., Duarte A. (2010) Development and application of an off-line SPE-HPLC-UV methodology for the determination of penoxsulam in aquatic systems adjacent to rice fields. *Chromatographia* 71 (3/4), 347-350. <http://dx.doi.org/10.1365/s10337-009-1444-x>

24. Pereira M.E., Lillebø A.I., Pato P., Válega M., Coelho J.P., Lopes C., Rodrigues S., Cachada A., Otero M., Pardal M.A., Duarte A.C. (2009). Mercury pollution in Ria de Aveiro (Portugal): a review of the system assessment. *Environmental Monitoring and Assessment* 155, 39-49. <http://dx.doi.org/10.1007/s10661-008-0416-1>
25. Cachada A., Lopes L.V., Hursthouse A.S., Biasioli M., Grčman H., Otabbong E., Davidson C.M., Duarte A.C. (2009). The variability of polychlorinated biphenyls levels in urban soils from five European cities. *Environmental Pollution* 157 (2), 511-518. <http://dx.doi.org/10.1016/j.envpol.2008.09.002>
26. Cachada A., Rodrigues S.M., Mieiro C., Ferreira da Silva E., Pereira E., Duarte A.C. (2009). Controlling factors and environmental implications of mercury contamination in urban and agricultural soils under a long term influence of a chlor-alkali plant in the North-West Portugal. *Environmental Geology* 57, 91-98. <http://dx.doi.org/10.1007/s00254-008-1284-2>
27. Sousa A., Antunes S.C., Cachada A., Pereira E., Duarte A.C., Gonçalves F. (2008). Validation of avoidance assays for the screening assessment of soils under different anthropogenic disturbances. *Ecotoxicology and Environmental Safety* 71, 661–670. <http://dx.doi.org/10.1016/j.ecoenv.2008.02.004>
28. Rodrigues S., Eduarda Pereira M., Sarabando L., Lopes L., Cachada A., Duarte A. (2006). Spatial distribution of total Hg in urban soils from an Atlantic coastal city (Aveiro, Portugal). *Science of The Total Environment* 368 (1), 40-46. <http://dx.doi:10.1016/j.scitotenv.2005.09.088>
29. Abbondanzi F., Cachada A., Campisi T., Guerra R., Raccagni M., Iacondini A. (2003). Optimisation of a microbial bioassay for contaminated soil monitoring: bacterial inoculum standardisation and comparison with Microtox® assay. *Chemosphere* 53 (8), 889-897. [http://dx.doi.org/10.1016/S0045-6535\(03\)00717-3](http://dx.doi.org/10.1016/S0045-6535(03)00717-3)

6 SUPERVISION OF GRADUATION AND POST-GRADUATION STUDENTS

6.1 SCIENTIFIC SUPERVISIONS (MASTER STUDENTS)

2018| Carlos Diogo Morais da Costa. *Evaluation of the Soil Quality of the Douro Vineyard region: the effect of different modes of production*. Master in Ecology and Environment. Department of Biology, Faculty of Sciences. University of Porto. 13 December 2018. **Supervisor.**

2017| Pedro Emanuel Almeida Leitão. *Adoption of different agriculture practices and effects on soil quality*. Master's Degree in Environmental Sciences and Technology. Department of Geosciences, Environment and Spatial Planning, Faculty of Sciences. University of Porto. 4 December 2017. **Co-supervisor.**

6.2 SCIENTIFIC SUPERVISIONS (UNDERGRADUATE STUDENTS)

On going| Rafael Ferreira. *Phytotoxic effects of glyphosate on the development and redox homeostasis of a cover crop plant (Medicago sativa)*. Bachelor's Degree in Biology. Department of Biology, Faculty of Sciences. University of Porto. 2018/2019. **Supervisor**.

On going| Tatiana Lúcia Donai Lopes. *Effects of pesticides application on soil functions: the case study of Douro vineyards*. Extracurricular internship plan. Department of Biology, Faculty of Sciences. University of Porto, 2018/2019. **Supervisor**.

On going| Beatriz Neto Fernandes. *Effects of pesticides application on soil functions: the case study of Douro vineyards*. Extracurricular internship plan. Department of Biology, Faculty of Sciences. University of Porto, 2018/2019. **Supervisor**.

2018| Raquel Cristina Rocha Coelho. *Evaluation of pesticide contamination in Douro vineyard soils*. Bachelor's Degree in Biochemistry, University of Aveiro, 2018. **Supervisor**.

2018| Rafael Melo Hirner. *Conventional versus organic farming: effects on the quality of organic matter in soils*. Bachelor's Degree in Biotechnology, University of Aveiro, 2018. **Co-Supervisor**.

2018| Ana Mafalda Ribeiro Vieira. *Effects of soil contamination on soil microbial community functions*. Extracurricular internship plan. Department of Biology, Faculty of Sciences. University of Porto, 2018. **Supervisor**.

2018| Ana Catarina Domingos Perdigão Rebotim. *The impact of glyphosate herbicide on cover crops*. Extracurricular internship plan. Department of Biology, Faculty of Sciences. University of Porto, 2018. **Supervisor**.

2018| Beatriz Neto Fernandes. *Organic vs. conventional agriculture: a biological perspective*. Extracurricular internship plan BYT CIIMAR & Department of Biology, Faculty of Sciences. University of Porto, 2017/2018. **Supervisor**.

2017| Filipe da Costa Alves. *Effects of agrochemicals on terrestrial organisms: identification of biomarkers of exposure*. Extracurricular internship plan. Department of Biology, Faculty of Sciences. University of Porto, 2017. **Supervisor**.

2017| Pedro Filipe Miranda. *Effects of contamination by irrigation water on the diversity and functions of the soil microbial community*. Extracurricular internship plan. Department of Biology, Faculty of Sciences. University of Porto, 2017. **Supervisor**

2017| Carlos Diogo Morais da Costa. *The influence of contamination on the metabolic activity of invertebrates in the Ria de Aveiro*. Extracurricular internship plan. Department of Biology, Faculty of Sciences. University of Porto. 2017. **Supervisor**

2017| Cláudia Isabel Gomes da Silva Alvim Braga. *Effect of agrochemicals on terrestrial organisms: identification of biomarkers of exposure*. Extracurricular internship plan. Department of Biology, Faculty of Sciences. University of Porto. 2017. **Supervisor**

2017| Barbara Jessica Guedes Capelas. *Comparison of chemical and biological methods to evaluate the availability of Cu in soils of Douro vineyards*. Bachelor's Degree in Biology. Department of Biology, Faculty of Sciences. University of Porto. 2016/2017. **Supervisor**

2017| Diana da Silva Tomé. *Conventional versus conventional agriculture Organic farming: effects on the sustainability of Douro vineyards*. Bachelor's Degree in Biochemistry, University of Aveiro, 2016/2017. **Supervisor**.

2017| Bruno Miguel Teixeira Mendes. *Soil quality in Viticulture areas: physical, chemical and biological indicators*. Bachelor's Degree in Environmental Sciences and Technology. Faculty of Sciences of University of Porto. 2017. **Co-Supervisor**.

2014| Tiago Manuel Pereira Rodrigues. *Implementation of a method of determining the herbicide glyphosate and AMPA respective derivative in aqueous samples*. Bachelor's degree in Chemistry, University of Aveiro, 2013/2014. **Co-Supervisor**

7 RESEARCH PROJECTS

7.1 COORDINATION OF SCIENTIFIC RESEARCH PROJECTS

2017-2018| NoTillAgri-Estarreja: The effect of No-Tillage farming on preserving soil and plants health in well water irrigated corn and ryegrass. Case study: Agriculture land, municipality of Estarreja, Centro region, Portugal. Labex DRIIHM & Réseau des Observatoire Hommes-Millieux – Centre National de la Recherche Scientifique (ROHM-CNRS). OHM-Estarreja/2017/Proj.8. (September 2017-August 2018)

2016-2017| SOILgenoMIC- How the contamination of irrigation water ends up in impacts on the genomic diversity and functions of the soil microbial community? Labex DRIIHM & Réseau des Observatoire Hommes-Millieux – Centre National de la Recherche Scientifique (ROHM-CNRS). OHM-Estarreja/2016/Proj.2 (September 2016 - September 2017).

7.2 PARTICIPATION IN SCIENTIFIC RESEARCH PROJECTS

2018-2021| Green rehabilitation system for burned soils based on the inoculation of native cyanobacteria and microalgae. PCIF/RPG/0077/2017

2018-2019| MATISse - Microplastics on Agricultural Soils: assessment of their impact on physical, chemical and biological soil properties. Labex DRIIHM & Réseau des Observatoire Hommes-Millieux – Centre National de la Recherche Scientifique (ROHM-CNRS). OHM-Estarreja/2018/Proj.4.

2018-2019| SOILRICE - Geochemical and ecological soil quality status in cultivated and abandoned rice paddies. Labex DRIIHM & Réseau des Observatoire Hommes-Millieux – Centre National de la Recherche Scientifique (ROHM-CNRS). OHM-Estarreja/2018/Proj.1.

2017-2018| ReACT - Risk assessment in Fildes Peninsula: improving knowledge towards environmental protection ACTIONS in the Antarctica. PROPOLAR - Programa Polar Português. Projetos de Investigação Polar em todas as áreas científicas 2017-2018.

2017-2018| NAMELESS - Nanomaterials for the Remediation of agriculture Metal contaminated soils surrounding the Estarreja chemical complex. Labex DRIIHM & Réseau des Observatoire Hommes-Millieux – Centre National de la Recherche Scientifique (ROHM-CNRS). OHM-Estarreja/2017/Proj.3. (Setembro 2017-Agosto 2018).

2016-2018| Structural project INNOVMAR (NORTE-01-0145-FEDER-000035) within the research line (NOVELMAR/INSEAFOD/ECOSERVICES), co-financed by the Northern Regional Operational Program (NORTE 2020) through Portugal 2020 and the European Regional Development Fund (ERDF).

2016-2017| INV-AVEIRO - The influence of contamination in the metabolic activity of INVertebrates from Ria de AVEIRO. Labex DRIIHM & Réseau des Observatoire Hommes-Millieux – Centre National de la Recherche Scientifique (ROHM-CNRS). OHM-Estarreja/2016/Proj.6 (setembro 2016 - setembro 2017)

2015-2016| AgrInfluence - The influence of agriculture practices on contaminants mobility. Labex DRIIHM & Réseau des Observatoire Hommes-Millieux – Centre National de la Recherche Scientifique (ROHM-CNRS). OHM-Estarreja/2015/Proj.1 (setembro 2015 - setembro 2016)

2015-2016| ChemREs - Chemical Composition of Rainwater in Estarreja: identification of major contaminants (organic and inorganic), source assessment and evaluation of implications for the environment and humans. OHM-Estarreja/2015 (September 2015 - September 2016).

2014-2015| TransIMO - Transfer of organic matter in the continent-ocean interface: research in two water systems of tropical and temperate areas based on molecular and isotopic markers. Agreement FCT/CAPES (2014-03-01 - 2016-02-29).

2013-2014| Evaluation of the presence and distribution of organic pollutants and toxic metals in sediments and waters of temporary Mediterranean rivers: the case of the Sebou basin. FCT/CNRST – Morocco (2013-06-01 - 2015-05-31).

2013-2015| ORQUE-SUODE (SOE3/P2/F591) - Research Centre for Environmental Quality of Southwest Europe. European Territorial Cooperation Programme INTERREG IV B SUDOE (2013-2014).

2013-2014| D-AIR@home- Potential Human Exposure to organic pollutants at the home environment: sampling of indoor and outdoor dust and ambient air. OHM Estarreja-CNRS (March 2013 - March 2014)

2011-2014| DVINE (PTDC/CTE-GIX/112821/2009) - The Douro vineyards, a World Heritage site: the environmental impact assessment of a secular activity on the quality of sediment and water in the Douro demarcated region. FCT (2011-2014).

2008-2011| URBSOIL-LISBON (PTDC/CTE-GEX/68523/2006) - Geochemistry of Lisbon urban soils: characterization and mapping; support for future studies of human health. FCT (2008-2011).

2005-2006 | SWIFT-WFD (SSPI-CT-2003-502492) - Screening methods for water data information in support of the implementation of the Water Framework Directive. FP6 EU Project (2005 – 2006).

2005-2008 | SOLURB (POCTI/CTA /44851/2002) - Development of methodologies for assessment of environmental quality in urban soils. FCT (2005-2008).

2002-2004 | URBSOIL (EVK4-CT-2001-00053) - Urban soils as a source and sink for pollution: towards a common European methodology for the evaluation of their environmental quality as a tool for sustainable resource management. EU (2002-2004).

8 PARTICIPATION IN SCIENTIFIC MEETINGS

8.1 ORAL PRESENTATIONS BY INVITATION IN SEMINARS, WORKSHOPS, AND SHORT COURSES

1. *VI Workshop of Probability and Statistics group — Interdisciplinarity and applications.* University of Aveiro, 23th May **2018**. Organic and inorganic contaminants in urban areas: major inputs and source identification. **A. Cachada**
2. *5º Colloque de Restitution do OHM-Estarreja.* Universidade de Aveiro, 3 novembro **2017**. SOILgenoMIC- How the contamination of irrigation water ends up in impacts on the genomic diversity and functions of the soil microbial community? **Cachada A.**, Durães N., Dias A. C., Patinha C., Duarte A., Lourenço J., Caetano T., Mendo S., Pereira R.
3. *5º Colloque de Restitution do OHM-Estarreja.* Universidade de Aveiro, 3 novembro **2017**. INV-AVEIRO - The influence of contamination in the metabolic activity of INVertebrates from Ria de AVEIRO. **Anabela Cachada**, Pedro Pato, Armando da Costa Duarte, Joana Lourenço, Sonia Mendo, Ruth Pereira.
4. Human Health Risk Assessment: Principles, frameworks and applications. Workshop. Workshop within in the advanced course "*Advanced Course on Environmental Risk Assessment*" that took place on 25-26 July **2015**. MedGeo2015 - 6th International Conference on Medical Geology. University of Aveiro, Portugal. **A. Cachada**
5. The application of soil quality guideline values on ERA. Workshop within in the advanced course "*Advanced Course on Environmental Risk Assessment*" that took place on 25-26 July **2015**. MedGeo2015 - 6th International Conference on Medical Geology. University of Aveiro, Portugal. **A. Cachada**
6. Risk Assessment Contaminated Sites: the particular case of uranium mines. Workshop within the VIII National Meeting of Biology Students. Braga, 27-31 March **2015**. **A. Cachada**
7. Organic contaminants in urban soils: main sources and potential risks. Lecture under the program "*Geoscience at lunch*" organized by AAUAv Geology Unit in collaboration with the Laboratory of Geology and Geophysics Department of Geosciences of the AU. University of Aveiro, May 7, **2014**. **A. Cachada**
8. Organic contaminants in urban soils: identification of sources and potential risks. Seminar "*Practical cases assessment of contaminated soils*" co-organized by CESAM, Department of

Chemistry, Analysis Central Laboratory of the University of Aveiro and SWE -. Soil Studies Center, Water and Energy (Braga) University of Aveiro, Feb. 27, **2013**. **A. Cachada**

8.2 ORAL COMMUNICATIONS IN NATIONAL CONFERENCES

1. Symposium "*Soil in scientific research in Portugal*", Lisbon, 27 de November de **2015**. Reis A.P., **Cachada A.**, Duarte A., Pereira E., Shepherd T., Patinha C., Dias A., Rocha F., Ferreira da Silva E., Batista M.J., Prazeres C., Sousa A.J. Source-pathway analysis of lead and polycyclic aromatic hydrocarbons in urban soils of Lisbon.
2. *XVI Geochemistry Week and X Congress of Geochemistry of Portuguese Speaking Countries*, Porto, 28 March – 01 April de **2010**. **Cachada A.**, Ferreira da Silva E., Duarte A. C. Evaluation of the contamination and identification of polycyclic aromatic hydrocarbon sources in the urban soils of Lisbon.
3. *XVI Geochemistry Week and X Congress of Geochemistry of Portuguese Speaking Countries*, Porto, 28 March – 01 April de **2010**. Adão R., Martins H., Patinha C., Reis A.P., Dias C., **Cachada A.**, Ferreira da Silva E., Sousa A.J. Assessment of the potential risk of exposure of the population of the Center of Portugal to environmental lead, expressed in the soils of the region: part I.
4. *XV Week - VI Iberian Congress of Geochemistry*, Vila Real, 16- 21 July **2007**. **Cachada A.**, Rodrigues S., Pereira E., Ferreira da Silva E., Duarte A. The origin and distribution of potentially toxic metals in soils from the city of Estarreja, Portugal.
5. *Analítica 03*, Porto, 18-19 de November de **2003**. Rodrigues S., Lopes L., **Cachada A.**, Duarte A.C. Urban soil chemistry and GIS-based mapping techniques combined for environmental quality assessment in Aveiro, Portugal.
6. *VII congresso nazionale di chimica ambientale "Dal locale al globale: percorsi di sostenibilità"*. Venezia: Società Chimica Italiana, 11-14 de Junho, **2002**. Abbondanzi F., **Cachada A.**, Campisi T., Guerra R., Raccagni M., lacondini A. Ottimizzazione di un test di ecotossicità batterica per il monitoraggio di suoli contaminati: standardizzazione dell'inoculo batterico.

8.3 ORAL COMMUNICATIONS IN INTERNATIONAL CONFERENCES:

1. *CIALP - Conferência Internacional de Ambiente em Língua Portuguesa*. Aveiro (Portugal), 8-10 Maio **2018**. C. Costa, B. Fernandes, C. Patinha, N. Durães, E. Ferreira da Silva, A. Duarte, R. Pereira, **A. Cachada**. Avaliação química e ecotoxicológica dos solos do Alto Douro Vinhateiro: o efeito de diferentes práticas agrícolas.
2. *EMEC - 18th European Meeting on Environmental Chemistry*. Porto (Portugal), 26-29 November **2017**. **Cachada A.**, Capelas B., Patinha C., Durães N., Ferreira da Silva E., Duarte A., Pereira R. Chemical and Biological Methods for the Evaluation of Cu Availability in Soils of the Douro Region.

3. *EMEC - 18th European Meeting on Environmental Chemistry*. Porto (Portugal), 26-29 November **2017**. Pereira R., Ribeiro A., Vieira M.N., Patinha C., Ferreira da Silva E., Duarte A., **Cachada A.** Ecosystem services provided by soils under different land uses: implications to water quality.
4. *EcoHCC'17 - International Conference on Ecohydrology, Soil and Climate Change*. Figueira da Foz (Portugal), 21-23 September **2017**. Ribeiro A., **Cachada A.**, Vieira M.N., Pereira R. Soil quality in river drainage basins: physico-chemical and biological indicators.
5. *EcoHCC'17 - International Conference on Ecohydrology, Soil and Climate Change*. Figueira da Foz (Portugal), 21-23 September **2017**. **Cachada A.**, Leitão P., Patinha C., Durães N., Ferreira da Silva E., Duarte A.C., Pereira R.. Soil quality indicators of vineyard soils: a case study in Douro region.
6. *9th International Symposium on Environmental Geochemistry*. Galway, Ireland, 14-20- July August **2016**. Patinha C., Durães N., Dias A.C., Pato P., Fonseca R., Janeiro A., Barriga F., Reis A.P., Duarte A., Ferreira da Silva E., Sousa A.J., **Cachada A.** Long-term application of the organic and inorganic
7. *1º Congresso Internacional de Química da Universidade de Cabo Verde*. Cidade da Praia, Cabo Verde, 12-14 de Novembro de **2015**. **Cachada A.**, Pato P., Duarte R. , Duarte A. C., Freire S. M. S. Residues of organochlorinated compounds in soils from Santiago Island, Cape Verde.
8. *MedGeo2015, 6th International Conference on Medical Geology*. Aveiro, Portugal, 27-31 July **2015**. **Cachada A.**, Barbosa S., Dias A.C., Patinha C., Reis A.P., Ferreira da Silva E., Duarte A.C., Pereira R. Viticulture activity in Douro region: potential risks to the environment.
9. *EGU 2015*. Viena, Austria, 12-17 April **2015**. **Cachada A.**, Pereira R., Ferreira da Silva E., Duarte A.C. PAHs contamination in urban soils from Lisbon: spatial variability and potential risks.
10. *7th European Conference on Pesticides and Related Organic Micropollutants in the Environment & 13th Symposium on Chemistry and Fate of Modern Pesticides*. Porto, Portugal, 7-10 October **2012**. **Cachada A.**, Pato P., Ferreira da Silva E., Duarte A.C. Application of a Solid-Phase Extraction Method to Assess the Water Soluble Fraction of Polycyclic Aromatic Hydrocarbons in Urban Soils.
11. *9th International Symposium on Environmental Geochemistry*. Aveiro, Portugal 15-21 July **2012**. **Cachada A.**, Dias A.C., Patinha C., Reis A.P., Ferreira da Silva E., Duarte A.C. Polycyclic aromatic hydrocarbons in soils and street dust from Lisbon urban area
12. *EcoHCC11. International Conference on Ecohydrology and Climate Change*. Tomar, Portugal, 16-17 September **2011**. **Cachada A.**, Pato P., Rocha-Santos T., Pereira M.E., Ferreira da Silva E., Duarte A.C.. Levels and sources of persistent organic pollutants and potentially toxic elements in two contrasting Portuguese urban areas.
13. *Geomed 2011*. Bari, Italy, 20-25 September **2011**. Reis A., Ferreira da Silva E., Patinha C., Dias C., Bartolomeu S., Sérgio C., **Cachada A.**, Batista J., Prazeres C., Figueira R., Salgueiro R., Neves O. Environmental assessment of Pb, As and Cr concentrations in topsoil, ground-level dust and moss from urban playgrounds, public gardens and parks from Lisbon, Portugal.

14. *25th International applied Geochemistry symposium (IAGS)*. Rovaniemi, Finland, 22-26 August **2011**. Reis A., Patinha C., Ferreira da Silva E., Dias A., Bartolomeu S., Sousa A., **Cachada A.**, Batista M., Prazeres C., Figueira R., Sérgio C., Salgueiro R., Neves O., Duarte A. Environmental assessment of Ni and Cd in topsoil and ground-level dust from urban playgrounds, public gardens and parks from Lisbon, Portugal.
15. *SEGH 2010*, Galway, Ireland, June 27- July **2010**. **Cachada A.**, Dias A.C., Patinha C., Reis A. P., Ferreira da Silva E., Duarte A.C. Spatial variability and sources of Polycyclic Aromatic Hydrocarbons in Lisbon urban soils.
16. *SEGH 2010*, Galway, Ireland, June 27- July **2010**. Reis A.P., Patinha C., Sousa A.J., Rodrigues S., Ferreira da Silva E., Dias A., **Cachada A.**, Batista M.J., Prazeres C. Environmental urban geochemistry at Lisbon city: dispersion patterns of metal-laden ground-levels dusts.
17. *VII Congresso Ibérico e X Congreso Nacional de Geoquímica*. Sória, Espanha, 21-23 de Setembro de **2009**. Pato P., **Cachada A.**, Pereira M.E., Pardal M.A., Duarte A.C. Polycyclic aromatic hydrocarbons distribution and sources in two Atlantic coastal systems.

8.4 POSTER PRESENTATIONS IN NATIONAL CONFERENCES:

1. 10th Portuguese Conference on Polar Sciences. University of Aveiro, Aveiro, 25-26 October **2018**. Jeremias G.A., Pereira R., Vidal T., **Cachada A.**, Pereira P., Canário J., Guilherme S., Pacheco M., Gonçalves F.J.M., Pereira J.L. Environmental Risk Assessment in Antarctica: field actions and preliminary results of the project ReACT
2. *IJUP2018 - Youth Research Meeting*. University of Porto, Porto, 7-9 February **2018**. Santos B., Rodríguez-Seijo A., **Cachada A.**, Pereira R. Can microplastics increase the uptake of agrochemicals by the soil biota and have bigger adverse effects?
3. *IJUP2018 - Youth Research Meeting*. University of Porto, Porto, 7-9 February **2018**. Costa C., **Cachada A.**, Pereira R. The Influence of Contamination on the Hediste diversicolor Metabolic Activity in the Ria de Aveiro.
4. *IJUP2018 - Youth Research Meeting*. University of Porto, Porto, 7-9 February **2018**. Fernandes B., Costa C., Leitão P., Pereira R., **Cachada A.** Assessment of the enzymatic activity of vineyard soils.
5. Simposio "O solo na investigação científica em Portugal", Lisboa, 27 de novembro de **2015**. Patinha C., Almeida B., Dias A., **Cachada A.**, Reis A.P., Durães N., Pato P., Duarte A., Fonseca A., Barriga F., Janeiro I, Ferreira da Silva E. O solo e o cultivo da vinha na Região Demarcada do Douro – um caso de estudo.
6. *XXIII Encontro Nacional da SPQ*, Aveiro, 12 - 14 de Junho de **2013**. **Cachada A.**, Duarte R., Duarte A.C. Observatório de Investigação para a Qualidade Ambiental do Sudoeste Europeu – ORQUE SUDOESTE.
7. *XVII Semana de Geoquímica*. Castelo Branco, 24-28 Setembro **2011**. Patinha C., Reis A.P., Ferreira da Silva E., **Cachada A.**, Sousa A.J., Terroso D., Rocha F., Vidinha J., Almeida M.,

- Sequeira C., Martins P., Fonseca R. DVINE – The Douro vineyards, World Heritage Patrimony: Assessing the impact of an ancient activity in the quality of sediment and water in the Douro.
8. *XVI Semana de Geoquímica e X Congresso de Geoquímica dos Países de Língua Portuguesa*. Porto, 28 Março – 01 Abril **2010**. Bartolomeu A. S., Reis A.P., Patinha C., Dias A.C., **Cachada A.**, Prazeres C., Sousa A.J., Ferreira da Silva E., Batista M. J. Geoquímica urbana na cidade de Lisboa: controle de dados climatológicos na dispersão de poeiras contaminadas.
 9. *XVI Semana de Geoquímica e X Congresso de Geoquímica dos Países de Língua Portuguesa*. Porto, 28 Março – 01 Abril 2010. Prazeres C., Batista M. J., Patinha C., Reis A.P., Dias A.C., **Cachada A.**, Ferreira da Silva E., Sousa A.J., Figueira R., Sérgio C. URBSOIL-LISBON - Geoquímica dos solos urbanos de Lisboa: caracterização e cartografia, suporte para futuros estudos de saúde humana – Resultados Preliminares.
 10. *XVI Semana de Geoquímica e X Congresso de Geoquímica dos Países de Língua Portuguesa*. Porto, 28 Março – 01 Abril **2010**. Adão R., Martins H., Patinha C., Reis A.P., Dias C., **Cachada A.**, Ferreira da Silva E., Sousa A.J. Avaliação do risco potencial de exposição da população do Centro de Portugal ao chumbo ambiental, expresso nos solos da região: parte II.
 11. *VIII Congresso Nacional de Geologia*. Braga, 12-16 Julho **2010**. Prazeres C., Batista M. J., Patinha C., Reis A. P., Dias A. C., Ferreira Da Silva E., **Cachada A.**, Sousa A. J., Figueira R., Sérgio C. URBSOIL-LISBON- Geoquímica dos solos e poeiras da cidade de Lisboa: Caracterização e cartografia, suporte para futuros estudos de saúde humana- Resultados preliminares.
 12. *Qualidade do Ambiente Urbano: novos desafios*. Bragança, 8-9 Outubro **2009**. Portugal. Dias A.C., Patinha C., **Cachada A.**, Reis P., Sequeira C., Duarte A.C., Ferreira da Silva E., Rocha F.T. Caracterização granulométrica dos solos urbanos de Lisboa: influência na dispersão dos metais em meio ambiente de superfície.
 13. *XIV Semana de Geoquímica e VIII Congresso de Geoquímica dos Países de Língua Portuguesa*. Aveiro, 11-16 Julho **2005**. **Cachada A.**, Lopes L., Rodrigues S. M., Santos T., Duarte A. C. Determination of organic pollutants in Aveiro urban soils.
 14. *Analítica 03*. Porto, 18-19 de Novembro **2003**. **Cachada A.**, Lopes L., Rodrigues S., Duarte A. Determination of organic pollutants in Aveiro urban soils.

8.5 POSTER PRESENTATIONS IN INTERNATIONAL CONFERENCES:

1. *CIALP - Conferência Internacional de Ambiente em Língua Portuguesa*. Aveiro (Portugal), 8-10 Maio **2018**. B. Fernandes, C. Costa, C. Patinha, N. Durães, E. Ferreira da Silva, A. Duarte, R. Pereira, **A. Cachada**. Atividade Microbiana em Solos das Vinhas do Douro
2. *EMEC - 18th European Meeting on Environmental Chemistry*. Porto (Portugal), 26-29 November **2017**. **Cachada A.**, Costa C., Pato P., Duarte A., Pereira R. Tracking the Distribution and Bioavailability of Contaminants in Ria de Aveiro (Portugal) using Polychaetes as Bioindicator Species.

3. *EMEC - 18th European Meeting on Environmental Chemistry*. Porto (Portugal), 26-29 November **2017**. **Cachada A.**, Costa C., Fernandes B., Patinha C., Durães N., Ferreira da Silva E., Duarte A., Pereira R. Organic vs. conventional agriculture in the Douro's vineyards: a biological perspective.
4. *EcoHCC'17 - International Conference on Ecohydrology, Soil and Climate Change*. Figueira da Foz, Portugal, 21-23 September **2017**. **Cachada A.**, Braga C., Soares C., Fidalgo F., Pereira R. The impact of the herbicide glyphosate on a cover crop plant.
5. *XXII Encontro Luso-Galego de Química*. Bragança, Portugal, 9-11 Novembro **2016**. Santos G.T.A.D., Santos P.S.M., Almeida C., **Cachada A.**, Patinha C., Rocha-Santos T., Duarte A.C. Identification of major organic contaminants in Estarreja rainwater.
6. *5th PYCheM - Portuguese Young Chemists Meeting; and 1st EYCheM - European Young Chemists Meeting*. Guimarães, Portugal, 26 - 29 April **2016**. Santos P.S.M., Gomes C., Patinha C., **Cachada A.**, Rocha-Santos T.A.P., Duarte A. C. Chemical composition of rainwater in Estarreja, Portugal.
7. *MEDGEO'15 - 6th International Conference on Medical Geology*. Aveiro (Portugal) 27 – 31 July **2015**. **Cachada A.**, Dias A.C., Reis A.P., Durães N., Duarte A.C., Ferreirara de Silva E., Patinha C. Groundwater contamination in an industrial area: the case study of Estarreja, Portugal.
8. *ISEAC 38*. Lausanne, Switzerland, 17-20 June 2014. Duarte A.C., Foudeil S., Hassoun H., Lamhasni T., Ait Lyazidi S., Benyaich F., Haddad M., Boughdad A., **Cachada A.**, Duarte R.M.B.O. Catalogue of fingerprints excitation-emission and total synchronous fluorescence maps of 50 homologated pesticides in large use in Morocco: direct, rapid and low cost identification of fluorescent pesticide residues in soils and waters.
9. *30th International Conference of the Society for Environmental Geochemistry and Health (SEGH)*. Newcastle, UK, 30th June - 4th July, **2014**. **Cachada A.**, Barbosa, S., Dias A.C., Patinha C., Reis A.P., Ferreira da Silva E., Duarte. Impact of agricultural activity of Port wine production in the soil quality and adjacent aquatic systems.
10. *29th International Conference of the Society for Environmental Geochemistry and Health (SEGH)*. Toulouse, France, 8th-12th July **2013**. **Cachada A.**, Barbosa, S., P. Pato, A.C. Dias, C. Patinha, A.P. Reis, E. Ferreira da Silva, A. C. Duarte. Impact of Douro vineyards to surface water quality.
11. *7th European Conference on Pesticides and Related Organic Micropollutants in the Environment & 13th Symposium on Chemistry and Fate of Modern Pesticides*. Porto, Portugal, 7-10 October **2012**. **Cachada A.**, Freire S.M.S, Pato P., Duarte R., Duarte A.C. Residues of chlorinated pesticides in soils from Cape Verde.
12. *7th European Conference on Pesticides and Related Organic Micropollutants in the Environment & 13th Symposium on Chemistry and Fate of Modern Pesticides*. Porto, Portugal, 7-10 October **2012**. Pato P., **Cachada A.**, Pereira M.E., Pardal M.A., Duarte A.C. Distribution and risks of POPs in the sediments of two Atlantic coastal systems.
13. *7th European Conference on Pesticides and Related Organic Micropollutants in the Environment & 13th Symposium on Chemistry and Fate of Modern Pesticides*. Porto, Portugal, 7-10 October

- 2012.** Pato P., **Cachada A.**, Dias A.C, Patinha C., Reis A.P., Ferreira da Silva E., Duarte A.C. Pesticides in Douro vineyards: impact to soil, sediment and water quality.
14. *9th International Symposium on Environmental Geochemistry*. Aveiro, Portugal, 15– 21 July **2012.** **Cachada A.**, Pereira R., Ferreira da Silva E., Duarte A.C. Assessment of PAHs availability in soils using chemical methods.
 15. *EcoHCC'11: International Conference on Ecohydrology and Climate Change*. Tomar, Portugal, 16-17 September **2011.** **Cachada A.**, Ribeiro C., Teixeira A.R., Duarte A.C. Prediction of PAHs availability in urban soils using chemical extractions.
 16. *25th International applied Geochemistry symposium (IAGS)*. Rovaniemi, Finland, 22-26 August **2011.** Patinha C., Reis A., Ferreira da Silva E., Dias A., Bartolomeu S., Sousa A., **Cachada A.**, Batista M., Prazeres C., Rocha F., Costa C., Sequeira C., Terroso D., Figueira R., Sérgio C., Salgueiro R., Neves O., Duarte A. Introducing "UrbanEnviron@Lisbon 2008" a GIS-platform for environmental and human health data management.
 17. *SEGH 2010*. Galway, Ireland, June 27- July **2010.** Patinha C., Reis A.P., Sousa A.J., Ferreira da Silva E., Dias A., **Cachada A.**, Batista M.J., Prazeres C. Environmental urban geochemistry at Lisbon city: dispersion patterns of lead and chromium in the topsoil.
 18. *SETAC Europe 20th Annual meeting*. Seville, Spain, 23-27 May **2010.** Antunes S.C., Pereira J.L., **Cachada A.**, Duarte A.C., Gonçalves F., Sousa J.P., Pereira R. Ecotoxicological evaluation of the pesticide bioavailable fraction in soil: suitability of a soil eluate test battery.
 19. *3rd Hemispheric Conference on Medical Geology*. Montevideo, Uruguay, October 12-16 **2009.** Patinha C., Reis A.P., Dias A.C., **Cachada A.**, Ferreira da Silva E., Sousa A. J.. Lead availability and bioaccessibility in soils of the Portugal Centre Region.
 20. *VII Congreso Ibérico e X Congreso Nacional de Geoquímica*. Sória, Espanha, 21-23 Setembro **2009.** Prazeres C., Batista M.J., Patinha C., Reis A.P., Dias A.C., **Cachada A.**, Ferreira da Silva E., Duarte A., Sousa A. J., Figueira R., Sérgio C. Urban geochemistry: a support to future health studies in Lisbon, Portugal.
 21. *EGU 2009*. Viena, Austria, 19-24 April **2009.** **Cachada A.**, Pereira R., Ferreira da Silva E., Duarte A.C. Polycyclic Aromatic Hydrocarbons in an industrialized urban area.
 22. *ISEAC 35*. Gdansk, Poland, June 22-26 **2008.** **Cachada A.**, Pereira R., Ferreira da Silva E., Duarte A.C. An approach to the risk assessment of organic pollutants in terrestrial ecosystems: the case of a chemical complex in north-west Portugal.
 23. *SETAC Europe 2008*. Warsaw, Poland, 25-29 May **2008.** Marques C.R., Antunes S.C., **Cachada A.**, Duarte A., Pereira R., Gonçalves F. In situ bioassessment of the impacts of pesticides application in a rice field on freshwater organisms.
 24. *Geochemistry of Arsenic*. Porto, Portugal, 28 April-3 May **2008.** **Cachada A.**, Rocha Santos T.A.P., Ferreira da Silva E., Duarte A.C. Arsenic distribution in two portuguese urban areas.
 25. *SETAC Europe 2007*. Porto, Portugal, 20-24 May **2007.** Sousa A., Antunes S.C., **Cachada A.**, Duarte A.C., Pereira E., Pereira R., Gonçalves F. Validation of Avoidance Tests for the Screening Assessment of Soils Submitted to Different Types of Anthropogenic Disturbances.

26. *8th International Conference on Mercury as a Global Pollutant (ICMGP)*. Madison (Wisconsin, EUA), 6–11 de August, **2006**. **Cachada A.**, Sonia R., Mieiro C., Ferreira da Silva E., Pereira E., Duarte A. The Distribution of Mercury in Urban Soils under Influence of a Chemical Complex.
27. *ICAS 2006*. International Congress on Analytical Sciences. Moscow, Russia, 25-30 June **2006**. **Cachada A.**, Rodrigues S.M., Duarte A.C. Environmental assessment of urban soils quality.
28. *International Conference – Soil protection strategy – needs and approaches for policy support, IUNG-PIC*. Pulawy, Poland, 9-11 de March, **2006**. Rodrigues S., **Cachada A.**, Pereira M.E., Duarte A. Soil environmental risk assessment in urban areas.
29. *EMEC6 – The Sixth European Meeting on Environmental Chemistry*. Belgrade, Serbia, 6-10 December **2005**. **Cachada A.**, Rodrigues S., Duarte A. Development of a methodology to evaluate soil quality – a tool for urban resource management.
30. *EMEC6 – The Sixth European Meeting on Environmental Chemistry*. Belgrade, Serbia, 6-10 de December **2005**. **Cachada A.**, Rodrigues S., Ferreira da Silva E., Duarte A. The influence of a chemical complex in potential toxic metal distribution of nearby urban soils.
31. *11th Instrumental Analysis Conference*. Barcelona, Spain 15 – 17 November **2005**. Lima D., **Cachada A.**, Duarte A., Esteves V. Determination of Estrogens in water samples by solid phase extraction and gas chromatography/mass spectrometry.
32. *22nd International Meeting on Organic Geochemistry (IMOG)*. Seville, Spain, 12-16 September **2005**. **Cachada A.**, Lopes L., Rodrigues S. M., Duarte A. C. Distribution and spatial trends of PCBs in urban soils from six European cities.
33. *7th International Conference on Mercury as a Global Pollutant (ICMGP)*. Ljubljana, Slovenia, June **2004**. Rodrigues S., Pereira E., Sarabando L., Lopes L., **Cachada A.**, Duarte A. Spatial distribution of total Hg in urban soils from an Atlantic coastal city (Aveiro, Portugal).
34. *VIII ISAMEF/ SEQA 2003, VIII International symposium on analytical methodology in the environmental field/ XIII Meeting of the Spanish Society of Analytical Chemistry*. Coruña, Spain, 24-25 October **2003**. Rodrigues S., Lopes A., Lopes L., **Cachada A.**, Duarte A. Use of GIS Tool to map and assess spatial variations of metal concentrations in urban soils.
35. *7th ICOBTE, International Conference on the Biogeochemistry of Trace Elements*. SLU, Uppsala, Sweden, 15-19 de June **2003**. Rodrigues S., **Cachada A.**, Duarte A. Specific sampling and sample handling procedures for analysis of semivolatile organic compounds in urban soils.
36. *ConSoil 2003, 8th International Conference on Contaminated Soil*. ICC Gent, Belgium, 12-16 May **2003**. Abbondanzi F., **Cachada A.**, Campisi T., Ruiz A. C., Guerra R., Raccagni M., Iacondini A. Use of *Pseudomonas Fluorescens* in a contaminated soil bioassay.

8.6 OTHER PUBLICATIONS

1. Reis A.P., **Cachada A.**, Duarte A., Pereira E., Shepherd T., Patinha C., Dias A., Rocha F., Ferreira da Silva E., Batista M.J., Prazeres C., Sousa A.J. (**2015**) Análise fonte-via-destino de chumbo e

- hidrocarbonetos aromáticos policíclicos em solos urbanos de Lisboa. In: Abreu M.M., Fangueiro, D., Santos E.S. (Eds). *O solo na investigação científica em Portugal*. ISAPress, Lisboa, pp: 141-144
2. Marques C.R., Pereira R., Antunes S.C., **Cachada A.**, Duarte A.C., Gonçalves F. (2009) Estudo in situ do efeito de pesticidas numa microalga. *Captar – Ciência e vida para todos* 1 (1), 113-126. <http://captar.web.ua.pt/>

9 OTHER SCIENTIFIC ACTIVITIES

9.1 SCIENTIFIC ADVISOR PANELS

2018 - | FAO: Expert on Soil Pollution; Working group 1, “for developing feasible and regionally contextualized guidelines for assessing, mapping, monitoring and reporting on soil pollution”.

2018 - | Scientific Advisor of the following ISO committees: ISO/TC 190/SC 3 - "Chemical and physical characterization"; ISO/TC 190/SC 7 – "Impact assessment"; ISO/TC 190/SC 7/WG 10 - "Contaminated site assessment".

9.2 PARTICIPATION IN ACADEMIC PANELS

2018| Carlos Diogo Morais da Costa. *Evaluation of the Soil Quality of the Douro Vineyard region: the effect of different modes of production*. Master in Ecology and Environment. Department of Biology, Faculty of Sciences. University of Porto. 13 December 2018. **Vowel**

2018| Márcia Luísa Bessa da Silva. *Evaluation of the Ecological Impact of Contaminants*. hD in Biology. Department of Biology, University of Aveiro, 19 November 2018. **Main Evaluator**

2017| Pedro Emanuel Almeida Leitão. *Adoption of different agriculture practices and effects on soil quality*. Master’s Degree in Environmental Sciences and Technology. Department of Geosciences, Environment and Spatial Planning, 4 December 2017. **Vowel**

2016| Patrícia Sofia Teixeira Sousa. *Distribution of metals in dusts from Estarreja: study of mobility and potential impact into the environment*. Master degree in Geochemistry. Department of Geosciences, University of Aveiro. 8th January 2016. **Main Evaluator**.

9.3 EDITORIAL AND REVIEW ACTIVITIES

Editorial activities

2018 - | Editorial Board Member of the journal *Data in Brief* (Elsevier)
<https://www.journals.elsevier.com/data-in-brief/editorial-board>

Reviewer for several SCI indexed international journals since 2009 (More information at <https://publons.com/author/1244312/anabela-cachada-profile>):

2018| Chemosphere; Ecotoxicology and Environmental Safety (2); Environmental Geochemistry and Health (3); Environmental International; Environmental Pollution (3); Science of the Total Environment.

2017| Chemosphere (3); CLEAN - Soil, Air, Water; Environmental Geochemistry and Health (2); Environmental Pollution; Environmental Science and Pollution Research; European Journal of Soil Science; Pedosphere; Recursos Hídricos; Science of the Total Environment

2016| Chemosphere (2); Environmental Geochemistry and Health; Environmental Pollution; Soil Biology and Biochemistry

2015| Chemosphere; Chromatographia; Ecotoxicology and Environmental Safety (2); Environmental Geochemistry and Health; Environmental Pollution (2); Environmental Science & Technology; Environmental Technology & Innovation; Pedosphere (2); Science of the Total Environment

2014| Chemosphere (2); Environmental Monitoring and Assessment; Environmental Pollution (2); Environmental Toxicology and Chemistry; International Journal of Environmental Analytical Chemistry; Science of the Total Environment (2)

2013| Bulletin of Environmental Contamination and Toxicology; Environmental Geochemistry and Health; Environmental Health; Environmental Monitoring and Assessment (2); Fresenius Environmental Bulletin; Journal of Hazardous Materials; Science of the Total Environment (4)

2012| Environmental Forensics Journal; Environmental Geochemistry and Health (3); Environmental Monitoring and Assessment; Environmental Pollution; Journal of Hazardous Materials

2011| Science of the Total Environment

2010| Chemosphere

2009| Environmental Geology; Journal of Hazardous Materials

9.4 ORGANIZATION OF SCIENTIFIC EVENTS AND CONFERENCES

2013| Organization of a seminar at the University of Aveiro, entitled "Innovative tools and technology solutions for the management and sustainability of coastal areas", held on May 30, 2013 under project ORQUE-SUDOE.

2012| Organization of the international conference "ISEG 9th International Symposium on Environmental Geochemistry", Aveiro, Portugal 15-21 July 2012".

9.5 TECHNICAL SKILLS AND COMPETENCES

- Depth knowledge about Arcgis, SPSS and Statistica.
- Instrumental techniques used: Gas chromatography with mass spectrometric detection (GC-MS); High-performance liquid chromatography (HPLC) with UV and fluorescence detection; Atomic Absorption Spectrometry.

- Participation in the study "Characterization of dredging sediments in the main navigation channel and the basin of the South Terminal of the port of Aveiro" (Aveiro Port Administration, April 2007).
- Participation in the interlaboratory test "ISO-SPME ISO 17943 - interlaboratory trial for validation on VOCs (ISO / TC 147 / SC 2); Water quality - Determination of volatile organic compounds in water - Method using headspace solid-phase microextraction (HS-SPME) Followed by chromatography-mass spectrometry gas (GC-MS) "

5th December 2018

Anabela Ferreira de Oliveira Cachada