CURRICULUM VITAE
EUROPEAN FORMAT

PERSONAL INFORMATION

Name, Surname	**Paula Alvarenga**
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Nationality	Portuguese
Place and Date of birth	Riachos (Torres Novas) Portugal, 08/11/1968

PROFESSIONAL INFORMATION

Intituto Superior de Agronomia (ISA)
University of Lisbon (ULisboa)
Department of Sciences and Engineering of Biosystems (DCEB)
Linking Landscape, Environment, Agriculture and Food Research Unit (LEAF)
Tapada da Ajuda, 1349-017 Lisboa - Portugal
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WORK EXPERIENCE

Dates (from – to)	From 1 January 2017
Name and address of employer	Instituto Superior de Agronomia – University of Lisbon
Type of business or sector	Teaching/Research activities
Occupation or position held	Assistant Professor
Main activities and responsibilities	Teaching practical and theoretical lectures in the area of Soil Protection, Soil Pollution and Soil Decontamination (MsC level), Chemistry (BsC level) and Water and Wastewater Treatment Technologies (BsC level).

Dates (from – to)	1999- 31 December 2016
Name and address of employer	Agricultural Superior School - Polytechnic Institute of Beja (Portugal), Department of Technologies and Applied Sciences

Type of business or sector	Teaching/Research activities
Occupation or position held	Assistant Professor
Main activities and responsibilities	Responsible for practical and theoretical lectures of Chemistry (BsC level), Instrumental Methods of Analysis (BsC level), Soil Pollution and Decontamination (BsC level) and Soil Protection and Rehabilitation (MsC level). President of the Pedagogic Council of the Agricultural Superior School of Beja, from 2002-2005. Member of the Pedagogic Council of the Polytechnic Institute of Beja, from July 2009. Coordinator of the Technical, Scientific and Pedagogic Commission of the "Environmental Engineer" graduation – Agricultural Superior School, Polytechnic Institute of Beja (BsC level) (http://www.ipbeja.pt/cursos/esa-eab/Paginas/default.aspx), from December 2009. Supervision of several graduation thesis.
Dates (from – to)	1996-1999
Name and address of employer	Agricultural Superior School of the Polytechnic Institute of Beja (Portugal), Department of Chemistry/Biochemistry
Type of business or sector	Teaching/Research activities
Occupation or position held	2st Triennium Teaching Assistant
Main activities and responsibilities	Responsible for practical and theoretical lectures of Chemistry (BsC level) and practical lectures of Biochemistry (BsC level). Supervision of several graduation thesis.
Dates (from – to)	1993-1996
Name and address of employer	Agricultural Superior School of the Polytechnic Institute of Beja (Portugal), Department of Chemistry/Biochemistry
Type of business or sector	Teaching/Research activities
Occupation or position held	1st Triennium Teaching Assistant
Main activities and responsibilities	Responsible for practical lectures of Chemistry (BsC level) and Biochemistry (BsC level)

EDUCATION AND TRAINING

Dates (from – to)	2004-2009
Name and type of organisation providing education and training	Technical University of Lisbon – Agronomy Superior Institute
Principal subjects occupational skills covered	Environmental Engineering. Dissertation Title: Remediation of soils affected by mining activities with the use of organic biodegradable residues.
Title of qualification awarded	PhD
Dates (from – to)	1995-1998
Name and type of organisation providing education and training	University of Évora - Portugal
Principal subjects occupational skills covered	Analytical Chemistry – Biochemical Applications. Dissertation Title: Studies on heavy-metal uptake in the soil-plant system (Cistus ladanifer L.) in Aljustrel mining area (Portuguese).
Title of qualification awarded	MSc
Dates (from – to)	1987-1993
Name and type of organisation providing education and training	Technical University of Lisbon (Portugal) – Technical Superior Institute

Principal subjects occupational skills covered	Chemical Engineering /Biotechnology
Title of qualification awarded	Degree in Chemical Engineering (5 years graduation).

RESEARCH ACTIVITIES

RESEARCH SECTORS

Soil and water chemistry;
Soil and water quality assessment considering: chemical, biochemical, microbial and ecotoxicological tools;
Soil contamination and remediation, namely green remediation technologies (phytotechnologies);
Heavy metals and metalloids (bio)availability assessment..

RECENT SCIENTIFIC ACTIVITIES

2016-2019: Member of the research team of the project: ALOP: Sistema de observação, previsão e alerta na atmosfera e em reservatórios de águas do Alentejo, (ALT20-03-0145–FEDER)", financed by FEDER.

2016-2020: Member of the research team of the European Project LIFE14 ENV/PT/000369: "Management of biomass ash and organic waste in the recovery of degraded soils: a pilot project set in Portugal", http://lifenowaste.pt/s/, financed by the European Union –LIFE Program

2016-2020: Member of the research team of the project: "NANOFERTIL - Effect of soil (in)organic constituents on the efficacy, fate and phytoavailability of fertilizer and plant protection manufactured nanomaterials (PTDC/AGR-PRO/6262/2014)", financed by FCT.

2014-2017: Member of the research team of the project: "EMPACA - Innovative strategies to maximize water productivity in rice cultivation. Impacts on the emission of greenhouse gases, herbicides mobility, and accumulation of metals in the crop", financed by Ministerio de Economia y Competitividad – Gobierno de España, Programa Estatal de Investigación, Desarrollo e Innovación Orientada a los Retos de la Sociedad.

2014-2019: Member of the research team of the project: "Engage SKA – E-ciência Sustentável: Capacitação e Crescimento Inteligente para uma Participação Portuguesa no Square Kilometer Array, com Radioastronomia como Laboratório Aberto à Inovação (ROTEIRO/0041/2013)", financed by FCT

2013-2015: Member of the research team of the project: "TrophicENPs - Biodisponiblilidade e transferência de nanopartículas metálicas na cadeia alimentar terrestre (PTDC/AGR-PRO/4091/2012)", financed by FCT.

2012-2015: Coordinator of theProject - "ResOrgRisk: Environmental risk assessment of the use of organic residues as soil amendments." PTDC/AAC-AMB/119273/2010, financed by FCT.

2010-2013: Member of the research team of the European project: "COST Action 0905: Mineral Improved Crop Production for Healthy Food and Feed – WG1 Soil Plant Interactions (http://www.umb.no/Costaction), financed by PROGRAMA COST.

2004-2009: Member of the research team of the European project: "COST Action 859: Phytotechnologies to promote sustainable land use and improve food safety - Work Group 4 – Integration and Application of Phytotechnologies", financed by PROGRAMA COST.

De 2010-2013: Member of the research team of the project: "Ecotoxtools: Ecotoxicological tools for assessing agriculture associated environmental risks in Southern Europe big man-made freshwater reservoirs." PTDC/AAC-AMB/103547/2008. financed by FCT.

2005-2008: Member of the research team of the project: "A remediação in situ de solos contaminados por metais pesados. Uso de polímeros de poliacrilato e de resíduos orgânicos compostados (POCI/AMB/57586/2004)", financed by FCT

De 2006-2007: Member of the research team of the project: - "Recursos Hídricos da Albufeira do Alqueva no âmbito da política europeia de desenvolvimento sustentável: uma abordagem

interdisciplinar na avaliação da qualidade da água." GG/GGP/ME621-0167/05, financed by POCI2010

BOOKS AND ARTICLES

Alvarenga, P., Palma, P., Mourinha, C., Farto, M., Dôres, J., Patanita, M., Cunha-Queda, C., Natal-da-Luz, T., Renaud, M., Sousa, J.P. (2017). Recycling organic wastes to agricultural land as a way to improve its quality: A field study to evaluate benefits and risks. Waste Management. 61:582-592.

Renaud, M., Chelinho, S., **Alvarenga, P.,** Mourinha, C., Palma, P., Sousa, J.P. Natal-da-Luz, T. (2017). Organic wastes as soil amendments - Effects assessment towards soil invertebrates. Journal of Hazardous Materials. 330: 149–156.

Palma, P., Fialho, S., **Alvarenga, P**., Santos, C., Brás, T. Palma, G., Cavaco, C., Gomes, R., Neves, L.A. (2016). Membranes technology used in water treatment: Chemical, microbiological and ecotoxicological analysis. Science of the Total Environment. 568: 998-1009.

Alvarenga, P., Mourinha, C., Farto, M., Palma, P. (2016). Beneficial Use of Dewatered and Composted Sewage Sludge as Soil Amendments: Behaviour of Metals in Soils and Their Uptake by Plants. Waste and Biomass Valorization. 7: 1189–1201.

Alvarenga, P., Mourinha, C., Farto, M., Palma, P., Sengo, J., Morais, M.- C., Cunha-Queda, C. (2016). Ecotoxicological assessment of the potential impact on soil porewater, surface and groundwater from the use of organic wastes as soil amendments. Ecotoxicology and Environmental Safety. 126:102–110.

Alvarenga, P., Mourinha, C., Farto, M., Palma, P., Sengo, J., Morais, M.- C., Cunha-Queda, C. (2016). Quality assessment of a battery of organic wastes and composts using maturity, stability and enzymatic parameters. Waste and Biomass Valorization 7: 455-465.

Palma, P., Ledo, L., **Alvarenga, P**. (2016). Ecotoxicological endpoints, are they useful tools to support risk management strategies in strongly modified water bodies? Science of the Total Environment. 541:119-129.

Palma, P., Köck-Schulmeyer, M., **Alvarenga, P.,** Ledo, L., López de Alda, M., Barceló, D. (2015). Occurrence and potential risk of currently used pesticides in sediments of the Alqueva reservoir (Guadiana Basin). Environmental Science and Pollution Research. 22: 7665-7675.

Palma, P., Ledo, L., **Alvarenga, P.** (2015). Assessment of trace element pollution and its environmental risk to freshwater sediments influenced by anthropogenic contributions: The case study of Alqueva reservoir (Guadiana Basin). Catena, 128, 174–184.

Alvarenga, P., Mourinha, C., Farto, M., Santos, T., Palma, P., Sengo, J., Morais, M.- C., Cunha-Queda, C. (2015). Sewage sludge, compost and other representative organic wastes as agricultural soil amendments: Benefits versus limiting factors. Waste Management. 40: 44–52.

Marchand, L., Nsanganwimana, F., Lamy, J.B., Quintela-Sabaris, C., Gonnelli, C., Colzi, I., Fletcher, T., Oustriere, N., Kolbas, A., Kidd, P., Bordas, F., Newell, P., **Alvarenga, P.,** Deletic, A., Mench, M. (2014). Root biomass production in populations of six rooted macrophytes in response to Cu exposure: Intra-specific variability versus constitutive-like tolerance. Environmental Pollution. 193: 205-215.

Pardo, T., Clemente, R., **Alvarenga, P**., Bernal, M.P. (2014). Efficiency of soil organic and inorganic amendments on the remediation of a contaminated mine soil: II. Biological and ecotoxicological evaluation. Chemosphere 107:101–108. URL:Palma, P., Ledo, L., Soares, S., Barbosa, I.R., Alvarenga, P. (2014). Spatial and temporal variability of the water and sediments quality in the Alqueva reservoir (Guadiana Basin; southern Portugal). Science of the Total Environment. 470–471: 780–790.

Palma P., Köck-Schulmeyer M., **Alvarenga P.**, Ledo L., Barbosa I.R, López de Alda M., Barceló D. (2014). Risk assessment of pesticides detected in surface water of the Alqueva reservoir (Guadiana basin, southern of Portugal). Science of the Total Environment 488–489, 208–219.

Alvarenga, P., Simões, I., Palma, P., Amaral, O., Matos, J.X. (2014). Field study on the accumulation of trace elements by vegetables produced in the vicinity of abandoned pyrite mines. Science of the Total Environment 470–471:1233–1242

Manzano, R., Esteban, E., Peñalosa, J.M., **Alvarenga, P.** (2014). Amendment application in a multi-contaminated mine soil: effects on soil enzymatic ativities and ecotoxicological characteristics. Environmental Science and Pollution Research. 21:4539-4550

Palma, P., Ledo, L., Soares, S., Barbosa, I.R., **Alvarenga, P.** (2014). Integrated environmental assessment of freshwater sediments: a chemical and ecotoxicological approach at the Alqueva reservoir. Environmental Geochemistry and Health. 36: 209-223.

Alvarenga, P., de Varennes, A., Cunha-Queda, A.C. (2014). The effect of compost treatments and a plant cover with Agrostis tenuis on the immobilization/mobilization of trace elements in a mine-contaminated soil. International Journal of Phytoremediation. 16: 138-154.

Alvarenga, P., Laneiro, C., Palma, P., Varennes, A., & Cunha-Queda, C. (2013). A study on As, Cu, Pb and Zn (bio)availability in an abandoned mine area (São Domingos, Portugal) using chemical Alvarenga, P., Palma, P., de Varennes, A., Cunha-Queda, A.C. (2012). A contribution towards the risk assessment of soils from the São Domingos Mine (Portugal): Chemical, microbial and ecotoxicological indicators. Environmental Pollution. 161: 50-56.

Cunha-Queda, C., **Alvarenga, P.**, Nobre, A., de Varennes, A., (2010). Effect of municipal solid waste compost on mine soils as evaluated by chemical, biological and biochemical properties of soil. Compost Science & Utilization, Vol. 18, No. 2, 89-96.

Palma, P., **Alvarenga, P.**, Palma, V., Matos, C., Fernandes, R.M., Soares, A.M.V.M., Barbosa, I.R. (2010). Assessment of anthropogenic sources of water pollution using multivariate statistical techniques: a case study of the Alqueva's Reservoir, Portugal. Environmental Monitoring and Assessment.165:539-552.

Palma, P., **Alvarenga, P.**, Palma, V., Matos, C., Fernandes, R.M., Soares, A.M.V.M., Barbosa, I.R. (2010). Evaluation of surface water quality using an ecotoxicological approach: a case study of the Alqueva Reservoir (Portugal). Environmental Science and Pollution Research. 17:703-716.

Lampis, S., Ferrari, A., Cunha-Queda, A.C., **Alvarenga, P.**, Di Gregorio, S., Vallini, G. (2009). Selenite resistant rhizobacteria stimulate SeO32- phytoextraction by Brassica juncea in bioaugmented water-filtering artificial beds. Environmental Science and Pollution Research. 16: 663-670.

Palma, P., Kuster, M., **Alvarenga, P.**, Palma, V.L., Fernandes, R.M., Soares, A.M.V.M., López de Alda, M.J., Barceló, D., Barbosa, I.R. (2009). Risk assessment of representative and priority pesticides, in surface water of the Alqueva reservoir (South of Portugal) using on-line solid phase extraction-liquid chromatography-tandem mass spectrometry. Environment International. 35(3): 545-551.

Alvarenga, P., Palma, P., Gonçalves, A.P., Fernandes, R.M., de Varennes, A., Vallini, G., Duarte, E., Cunha-Queda, A.C. (2009). Organic residues as immobilizing agents in aided phytostabilization: (II) Effects on soil biochemical and ecotoxicological characteristics. Chemosphere. 74: 1301-1308.

Alvarenga, P., Gonçalves, A.P., Fernandes, R.M., de Varennes, A., Vallini, G., Duarte, E., Cunha-Queda, A.C. (2009). Organic residues as immobilizing agents in aided phytostabilization: (I) Effects on soil chemical characteristics. Chemosphere. 74: 1292-1300.

Alvarenga, P., Gonçalves, A.P., Fernandes, R.M., de Varennes, A., Vallini, G., Duarte, E., Cunha-Queda, A.C. (2009). Reclamation of a mine contaminated soil using biologically reactive organic matrices. Waste Management & Research. 27: 101-111.

Alvarenga, P., Gonçalves, A.P., Fernandes, R.M., de Varennes, A., Vallini, G., Duarte, E., Cunha-Queda, A.C. (2008). Evaluation of composts and liming materials in the phytostabilization of a mine soil using perennial ryegrass. Science of the Total Environment. 406: 43-56.

Alvarenga, P., Palma, P., Gonçalves, A.P., Baião, N., Fernandes, R.M., de Varennes, A., Vallini, G., Duarte, E., Cunha-Queda, A.C. (2008). Assessment of chemical, biochemical and ecotoxicological aspects in a mine soil amended with sludge of either urban or industrial origin. Chemosphere. 72: 1774-1781.

Alvarenga, P., Gonçalves, A.P., Fernandes, R.M., de Varennes, A., Duarte, E., Vallini, G., Cunha-Queda, A.C. (2008). Effect of organic residues and liming materials on metal extraction from a mining-contaminated soil. Bioremediation Journal. 12(2): 58-69.

Alvarenga, P., Palma, P., Gonçalves, A.P., Fernandes, R.M., de Varennes, A., Vallini, G., Duarte, E., Cunha-Queda, A.C. (2008). Evaluation of tests to assess the quality of mine-contaminated soils. Environmental Geochemistry and Health. 30: 95–99.

Alvarenga, P., Palma, P., Gonçalves, A.P., Fernandes, R.M., Cunha-Queda, A.C., Duarte, E., Vallini, G. (2007). Evaluation of chemical and ecotoxicological characteristics of biodegradable organic residues for application to agricultural land. Environment International. 33: 505-513.

Alvarenga, P.M., Araújo, M.F., Silva, J.A.L. (2004). Elemental uptake and root-leaves transfer in Cistus ladanifer L. growing in a contaminated mining area (Aljustrel-Portugal). Water, Air and Soil Pollution. 152: 81-86.

BOOK CHAPTERS

Novo, L.A.B., Castro, P.M.L., **Alvarenga, P.**, Silva, E.F. (In Press) Phytoremediation of rare and valuable metals, in: "Phytoremediation: Management of Environmental Contaminants", Vol. 5. Eds. Ansari, A.A., Gill, S.S., Gill, R., Lanza, G.R. & Newman, L., Springer.

PROCEEDINGS OF SCIENTIFIC CONFERENCES

Alvarenga, P., Ferreira, C., Mourinha, C., Palma, P., (2016). Beneficial Use of Drinking-Water Treatment Residuals for the Remediation of Mine Degraded Soils. Digital Proceedings of the 11th Conference on Sustainable Development of Energy, Water and Environmental Systems – SDEWES. (ISSN 1847-7178, digital proceedings). September 4 – 9, 2016, Lisbon, Portugal, pp. 0568-1 to 0568-10. http://www.lisbon2016.sdewes.org/

Alvarenga, P., Palma, P., Mourinha, C., Farto, M., Dôres, J., Patanita, M., Cunha-Queda, C., Natal-da-Luz, T., Sousa, J.P. (2016). Valorização agrícola de lamas residuais e compostos derivados de resíduos: efeitos nas propriedades do solo e na cultura de azevém. Livro de Atas do VII Congresso Ibérico das Ciências do Solo (CICS 2016) e VI Congresso Nacional de Rega e Drenagem (CNRD). Instituto Politécnico de Beja, 13 a 15 de Setembro de 2016. Beja. pp: 157-160; ISBN: 978-989-99665-0-5

Alvarenga, P., Ferreira, C., Mourinha, C., Palma, P. (2016). Utilização de lamas do tratamento de água para consumo humano na remediação de solos degradados por atividades mineiras. Livro de Atas do VII Congresso Ibérico das Ciências do Solo (CICS 2016) e VI Congresso Nacional de Rega e Drenagem (CNRD). Instituto Politécnico de Beja, 13 a 15 de Setembro de 2016. Beja. pp: 185-188; ISBN: 978-989-99665-0-5

Sengo, J., **Alvarenga, P.**, Mourinha, C., Farto, M., Palma, P., Morais, M.-C., Cunha-Queda, C. (2015). Uso de resíduos orgânicos como correctivos do solo: Influência na atividade das fosfatases ácidas. Abreu, M.M., Fangueiro, D., Erika, E.S. (Eds.). Book of Proceedings of the Meeting "O Solo na investigação científica em Portugal", "Comemorações do Ano Internacional dos Solos", ISAPress, 27 de Novembro de 2015, Instituto Superior de Agronomia, Universidade de Lisboa, p. 153-156.

Alvarenga, P., Palma, P., Mourinha, C., Farto, M., Dôres, J., Patanita, M., Sengo, J., Morais, M.-C., Cunha-Queda, C., Renaud, M., Simões, A., Natal da Luz, T., Moreira-Santos, M., Ribeiro, R., Sousa, J.P. (2015). Assessment of risks and benefits of recycling sewage sludge and different composted organic wastes to agricultural land. Extended Abstract presented in the Book of Abstracts of the "WASTES: Solutions, Treatments and Opportunities, 3rd International Conference", September 14th – 16th 2015, Viana do Castelo, Portugal.

Alvarenga, P., Palma, P., Farto, M., Mourinha, C., Dôres, J., Patanita, M., Sengo, J., Morais, M.-C., Cunha-Queda, C., Renaud, M., Natal da Luz, T., Sousa, J.P. (2015). Recycling organic wastes to agricultural land as a way to improve its quality: a field study to evaluate risks and benefits. Digital Proceedings of the 10th Conference on Sustainable Development of Energy, Water and Environmental Systems – SDEWES (ISSN 1847-7178, digital proceedings). September 27 – October 2, Dubrovnik (Croatia). p. 1032-1 a 1032-11.

Simões, A., Ribeiro, R., **Alvarenga, P.**, Palma, P., Moreira-Santos, M. (2015). Environmental risk assessment of using organic wastes as soil amendments: effects on aquatic organisms exposed via the soil-water pathways to aquatic systems. Digital Proceedings of the 10th Conference on Sustainable Development of Energy, Water and Environmental Systems – SDEWES (ISSN 1847-7178). September 27 – October 2, Dubrovnik (Croatia). p. 1036-1 a 1036-8.

Lampis, S., Ferrari, A., Cunha-Queda, A.C., **Alvarenga, P.**, Di Gregorio, S., Vallini, G. (2008). Influence of selenite resistant rhizobacteria on the SeO32- phytoextraction efficiency of Brassica juncea grown on water-filtering artificial beds. Livro de Actas do 4th European BioRemediation Conference. Chania (Crete), 3-6 Setembro, 2008 (ID 205).

Alvarenga, P.M., Matos, J.X., Fernandes, R.M. (2002). Avaliação do impacto das Minas de Chança e Vuelta Falsa (Faixa Piritosa Ibérica) nas Águas Superficiais da Bacia Hidrográfica do Rio Chança. Livro de Actas do Congresso Internacional sobre Património Geológico e Mineiro, Beja, Portugal. p. 611-620.

Alvarenga, P.M., Araújo, M.F., Silva, J.A.L. (2002). Avaliação da Possibilidade de Utilização da Esteva (Cistus ladanifer L.) numa Estratégia de Fitorremediação na Zona Mineira de Aljustrel. Livro de Actas do Congresso Internacional sobre Património Geológico e Mineiro, Beja, Portugal. p. 555-565.

Alvarenga, P.M. (1999). Estudo do Comportamento do Mn, Cu, Zn e Pb no Sistema Solo-Planta na Zona Mineira de Aljustrel Aplicados à Esteva (Cistus ladanifer L.). Actas do Encontro de Investigação no Ensino Superior Politécnico. Santarém (Vol. II). P.181-186.

Alvarenga, P.M., Araújo, M.F., Silva, J.A.L. (1998). Phytoremediation: a Study of Metals in the Soil-Plant System in Aljustrel's Mining Area Regarding Cistus ladanifer L. Proceedings of the 1st International Meeting of Aromatic and Medicinal Mediterranean Plants, Ansião, Portugal. p. 51-56.

ADDITIONAL INFORMATION

INTERNATIONAL ACTIVITIES

2004-2009: Member of the team of investigators of the **European Project COST Action 859:** Phytothecnologies to promote sustainable land use and improve food safety – Work Group 4 – Integration and Application of Phytotechnologies.

From 2008: Referee for the journals: Chemosphere (Elsevier); Environmental Pollution (Elsevier); Science of the Total Environment (Elsevier); Journal of Hazardous Materials (Elsevier); Journal of Environmental Management (Elsevier); Separation and Purification Technology (Elsevier); Ecotoxicology and Environmental Safety (Elsevier); Archives of Environmental Contamination and Toxicology (Springer); Journal of Soils and Sediments (Springer); Environmental Toxicology and Chemistry (Society of Environmental Toxicology and Chemistry); Waste Management & Research (International Solid Waste Association); Applied and Environmental Soil Science (Hindawi); and European Journal of Soil Science (Wiley - Blackwell).

PROFESSIONAL MEMBERSHIPS

Portuguese Society of Soil Science; International Phytotechnology Society; Society of Environmental Toxicology and Chemistry (SETAC).

LANGUAGES

Mother tongue: Portuguese
English: fluent in reading, speaking and writing
Spanish: fluent in reading and speaking