

**CURRICULUM VITAE****FILIFE BERNARDO**

**Current Position:** PhD Student in Biology.

**Research Keywords:** Environmental health; Island environmental risks; Ecotoxicology; Biomonitoring; Lichen biomarkers; Histophysiology.

**PERSONAL DATA AND CONTACTS**

<b>Full name</b>	Filipe Miguel Teixeira de Sousa Bernardo
<b>Nationality</b>	Portuguese
<b>Birth date</b>	June 23 <sup>rd</sup> 1990
<b>Home address</b>	Avenida Infante D. Henrique n°8 2º Dtº, Nossa Senhora do Rosário 9560-022 Lagoa, São Miguel, Açores, Portugal
<b>Work address</b>	Faculdade de Ciências e Tecnologia (A.196), Universidade dos Açores Rua da Mãe de Deus, Apartado 1422, 9501-801 Ponta Delgada São Miguel, Açores, Portugal
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<b>R&amp;D Team Member</b>	gba.uac.pt/member/filipe-bernardo

**LANGUAGES**

	<b>Write</b>	<b>Speak</b>	<b>Read</b>
<b>Portuguese</b>	C	C	C
<b>English</b>	C	C	C
<b>Spanish</b>	B	B	C
<b>French</b>	A	A	B

**ACADEMIC DEGREES****October 2016 – Current**

<b>Degree</b>	PhD in Biology (3CBIO).
<b>Project title</b>	"Development of a toolbox to biomonitor air quality: towards the sustainability of the Azorean green environment".
<b>Institution</b>	Faculty of Sciences and Technology, University of the Azores, Ponta Delgada, Portugal.
<b>R&amp;D Unit</b>	Centre for Ecology, Evolution and Environmental changes (cE3c) and Azorean Biodiversity Group (GBA).

**September 2012 – November 2014**

<b>Degree</b>	Master in Environment, Health and Safety.
<b>Thesis</b>	"Testicular damage comparison between mice from organic and conventional farms".
<b>Institutions</b>	Department of Biology, University of the Azores, Ponta Delgada, Portugal. SGS Portugal, SA – Azores delegation.
<b>Final score</b>	18.

**September 2008 – July 2011**

<b>Degree</b>	Bachelor in Biological Sciences and Health.
<b>Institutions</b>	Department of Biology, University of the Azores, Ponta Delgada, Portugal.
<b>Final score</b>	16.

**PROFESSIONAL QUALIFICATIONS****April 2016**

<b>Description</b>	First Aid and Basic Life Support.
<b>Institution</b>	SGS Portugal, SA – Azores delegation.
<b>Duration</b>	April 11 <sup>th</sup> to 14 <sup>th</sup> 2016 (16 hours).
<b>Final Score</b>	19.

**September 2012 – April 2014**

<b>Description</b>	Técnico Superior de Segurança e Higiene no Trabalho, nível VI, certified by Direção Regional do Emprego e Qualificação Profissional – Governo Regional dos Açores (Professional title n.º 5472016RA).
<b>Institution</b>	SGS Portugal, SA – Azores delegation.
<b>Duration</b>	540 hours.
<b>Final Score</b>	16.

**November 2013**

<b>Description</b>	Qualificação de Auditores Internos da Qualidade - ISO 9001:2008.
<b>Institution</b>	SGS Portugal, SA – Azores delegation.
<b>Duration</b>	40 hours.
<b>Final Score</b>	Approved.

**July 2013**

<b>Description</b>	Qualificação de Auditores Internos da Segurança - OHSAS 18001:2007; ISO 19011:2012.
<b>Institution</b>	SGS Portugal, SA – Azores delegation.
<b>Duration</b>	40 hours.
<b>Final Score</b>	Approved.

**COMPLEMENTARY STUDIES****June 2018**

<b>Title</b>	How to write a successful manuscript.
<b>Type</b>	Course in scientific writing.
<b>Location</b>	Faculty of Sciences and Technology, University of the Azores, Ponta Delgada, Portugal.
<b>Duration</b>	June 19 <sup>th</sup> and June 20 <sup>th</sup> , 2018 (8 hours).

**October 2017**

<b>Title</b>	Iodine bioaccessibility.
<b>Type</b>	Practical Course in workshop “Iodine and selenium in milk: environment and health”.
<b>Location</b>	Faculty of Sciences and Technology, University of the Azores, Ponta Delgada, Portugal.
<b>Duration</b>	October 20 <sup>th</sup> , 2017 (7 hours).

**July 2016**

<b>Title</b>	Lichens as a Tool for Interpretation of Environmental Changes and Management.
<b>Type</b>	Advanced Course.
<b>Location</b>	Faculdade de Ciências da Universidade de Lisboa, Portugal.
<b>Duration</b>	July 11 <sup>th</sup> to 15 <sup>th</sup> , 2016 (36 hours).

**October 2014**

<b>Title</b>	Sensitive Biomarkers in Ecotoxicology.
<b>Type</b>	Workshop.
<b>Location</b>	Department of Biology, University of the Azores, Ponta Delgada, Portugal.
<b>Duration</b>	October 8 <sup>th</sup> to 10 <sup>th</sup> , 2014 (35 hours).

**PROFESSIONAL POSITIONS****2016 - Current**

<b>Position</b>	PhD Student.
<b>Grant</b>	M.3.1.a/F/088/2015 Fundo Regional para a Ciência e Tecnologia (FRCT) e AÇORES 2020 (Programa Operacional FEDER FSE) do Governo dos Açores.
<b>R&amp;D center</b>	cE3c, Centre for Ecology, Evolution, and Environmental Changes, and Azorean Biodiversity Group.
<b>Institution</b>	Faculty of Sciences and Technology, University of the Azores, Ponta Delgada, Portugal.

**January 2015 – August 2015**

<b>Position</b>	Researcher internship in soil decontamination processes. Programa ESTAGIAR L (DRTQPDC – Governo Regional dos Açores).
<b>Institution</b>	VARELA & C. <sup>a</sup> Lda. Ponta Delgada, Azores, Portugal.

**COLLABORATION IN RESEARCH PROJECTS****2014 - 2015**

<b>Project</b>	[HOLI-BioPest]
<b>Funding</b>	Fundação Luso-Americana para o desenvolvimento (FLAD) (Proj. 59/2012).
<b>Description</b>	Development of an integrated biomonitorization program for pesticide exposure in agricultural ecosystems: a holistic approach.
<b>Activities</b>	<ul style="list-style-type: none"> <li>• Genotoxic and histophysiological effects of pesticides in mice (<i>Mus musculus</i>).</li> <li>• Genotoxic and cytotoxic effects of pesticides in earthworms (<i>Amyntas gracilis</i>).</li> </ul>

**SCIENTIFIC, TECHNICAL AND ARTISTIC/CULTURAL PRODUCTION****PEER-REVIEWED PAPERS (INDEXED JOURNALS WITH IMPACT FACTOR)**

**2020** ⇒ Bernardo., F, Rodrigues., A, Branquinho., C, Garcia., PV, 2020. Elemental profile of native lichens displaying the impact by agricultural and artificial land uses in the Atlantic island of São Miguel (Azores). *Chemosphere*, Vol. 267, Page 128887, March 2021. ISSN 0045-6535; DOI: <https://doi.org/10.1016/j.chemosphere.2020.128887>. (IF2019 5.778; Q1 Chemistry).

**2020** ⇒ Bernardo., F, Rocha., T, Branquinho., C, Garcia., PV & Rodrigues., A, 2020. Thallus structural alterations in green-algal lichens as indicators of elevated CO<sub>2</sub> in a degassing volcanic area. *Ecological Indicators*, Vol. 114, Page 106326, July 2020. ISSN 1470-160X; DOI: <https://doi.org/10.1016/j.ecolind.2020.106326>. (IF2019 4.229; Q1 Decision Sciences).

**2019** ⇒ Bernardo, F, Pinho, P, Matos, P, Viveiros, F, Branquinho, C, Rodrigues, A & Garcia, PV, 2019. Spatially modelling the risk areas of chronic exposure to hydrothermal volcanic emissions using lichens. *Science of The Total Environment*, Vol. 697, Page 133891, December 2019. ISSN 0048-9697; DOI: <https://doi.org/10.1016/j.scitotenv.2019.133891>. (IF2019 6.551; Q1 Environmental Chemistry).

**2018** ⇒ Parelho, C, Rodrigues, AS, Bernardo, F, Barreto, MC, Cunha, L, Poeta, P & Garcia, PV, 2018. Biological endpoints in earthworms (*Amyntas gracilis*) as tools for the ecotoxicity assessment of soils from livestock production systems. *Ecological Indicators*, Vol. 95, Pages 984-990, December 2018. ISSN 1470-160X; DOI: <http://doi.org/10.1016/j.ecolind.2017.09.045>. (IF2017 3.983; Q1 Environmental Sciences).

**2016** ⇒ Parelho, C, Bernardo, F, Camarinho, R, Rodrigues, AS & Garcia, PV, 2016. Testicular damage and farming environments – An integrative ecotoxicological link. *Chemosphere*, Vol. 155, Pages 135-141, July 2016. ISSN 0045-6535; DOI: <http://doi.org/10.1016/j.chemosphere.2016.04.043>. (IF2016 4.208; Q1 Environmental Sciences).

### BOOKS, BOOK CHAPTERS AND ARTICLES

**2020** ⇒ Bernardo, F & Rodrigues, AS. Líquenes: sensores da qualidade do ar. *UAciência - Açores Magazine*, Edição 19 abril 2020, pp. 12-13.

### STUDENT SUPERVISION

**2020** ⇒ Ana Beatriz da Rocha Pacheco. *Líquenes nativos como bioindicadores da poluição do ar no gradiente ambiental de São Miguel*. Bachelor's in biology, University of the Azores.

**2018** ⇒ Tânia de Fátima Soares Rocha. *Usnea rubicunda como bioindicador da poluição vulcanogénica hidrotermal do ar das Furnas (Ilha de São Miguel, Açores)*. Bachelor's in biology, University of the Azores.

### PUBLICATIONS IN SCIENTIFIC MEETINGS ABSTRACT BOOKS

**2016** ⇒ Parelho, C., Bernardo, F., Camarinho, R., Rodrigues, AS., Garcia, PV. To what extent agrochemicals exposure affects male gonads? Proceedings of the 18th International Conference on Heavy Metals in the Environment (ICHMET). PP. 279-280 of Abstract Book of ICHMET 2016 – 12th to 15th September 2016, Ghent, Belgium. Available at: <https://ojs.ugent.be/ichmet/article/view/3810/3786>

### ORAL COMMUNICATIONS IN NATIONAL SCIENTIFIC MEETINGS

**2019**

<b>Title</b>	Poster: Spatially modelling the risk areas of chronic exposure to hydrothermal volcanic emissions with high spatial resolution.
<b>Event</b>	5 <sup>th</sup> cE3c Annual Meeting – Frontiers in E3. Organized by Centre for Ecology, Evolution and Environmental Changes (cE3c).
<b>Location</b>	National Museum of Natural History and Science, Lisbon, Portugal.
<b>Date</b>	July 1 <sup>st</sup> and 2 <sup>nd</sup> , 2019.

**2018**

<b>Title</b>	Suitability of <i>Usnea rubicunda</i> as biomonitor of volcanogenic air pollution on hydrothermal areas.
<b>Event</b>	Workshop: The impact of natural and anthropogenic pollution on ecosystems and human health: which indicators should we use? Organized by eChanges team of the Centre for Ecology, Evolution and Environmental Changes (cE3c) and IERS team of the Azorean Biodiversity Group (GBA). Supported by project NitroPortugal.
<b>Location</b>	Faculty of Sciences and Technology, University of the Azores, Ponta Delgada, Portugal.
<b>Date</b>	September 17 <sup>th</sup> , 2018 (3,5 hours).

<b>Title</b>	Suitability of <i>Usnea rubicunda</i> as biomonitor of volcanogenic air pollution on hydrothermal areas.
<b>Event</b>	4 <sup>th</sup> cE3c Annual Meeting – Frontiers in E3. Organized by Centre for Ecology, Evolution and Environmental Changes (cE3c).
<b>Location</b>	Faculdade de Ciências da Universidade de Lisboa, Portugal.
<b>Date</b>	July 9 <sup>th</sup> and July 10 <sup>th</sup> , 2018.

**2016**

<b>Title</b>	Parelho, C, Bernardo, F, Camarinho, R, Rodrigues, AS & Garcia, PV, 2016. Testicular damage and farming environments – An integrative ecotoxicological link.
<b>Event</b>	IV Jornadas de Biologia – Investigar Biologia. Organized by Núcleo de Estudantes de Biologia da Universidade dos Açores (Nebaç).
<b>Location</b>	Department of Biology, University of the Azores, Ponta Delgada, Portugal.
<b>Date</b>	May 20 <sup>th</sup> , 2016.

**ORAL COMMUNICATIONS IN INTERNATIONAL SCIENTIFIC MEETINGS****2018**

<b>Title</b>	Suitability of <i>Usnea rubicunda</i> as biomonitor of volcanogenic air pollution on hydrothermal areas.
<b>Event</b>	4 <sup>th</sup> International Congress on Occupational & Environmental Toxicology. Organized by National Health Institute Dr. Ricardo Jorge (INSA) and Institute of Public Health of the University of Porto (ISPUP).
<b>Location</b>	Matosinhos, Porto, Portugal.
<b>Date</b>	October 24 <sup>th</sup> to October 26 <sup>th</sup> , 2018.

**LECTURES IN CLASSES****2020**

<b>Title</b>	Lichens as bioindicators of air pollution.
<b>Class</b>	Environmental Health – Bachelor in Civil Protection and Risk Management.
<b>Location</b>	Faculty of Sciences and Technology, University of the Azores, Ponta Delgada, Portugal.
<b>Date</b>	April 1 <sup>st</sup> 2020.

**2019**

<b>Title</b>	Lichens as bioindicators of environmental health.
<b>Class</b>	Environment and Public Health – Bachelor in Civil Protection and Risk Management.
<b>Location</b>	Faculty of Sciences and Technology, University of the Azores, Ponta Delgada, Portugal.
<b>Date</b>	February 27 <sup>th</sup> 2019.

**2018**

<b>Title</b>	Lichens as bioindicators of environmental health.
<b>Class</b>	Environment and Public Health – Bachelor in Civil Protection and Risk Management.
<b>Location</b>	Faculty of Sciences and Technology, University of the Azores, Ponta Delgada, Portugal.
<b>Date</b>	March 7 <sup>th</sup> 2018.

**2016**

<b>Title</b>	Lichens and plants as bioindicator models.
<b>Class</b>	Module of Ecotoxicology – Bachelor in Biology.
<b>Location</b>	Department of Biology, University of the Azores, Ponta Delgada, Portugal.
<b>Date</b>	March 17 <sup>th</sup> 2016.

<b>Title</b>	Lichens and plants as bioindicator models.
<b>Class</b>	Public Health – Bachelor in Civil Protection and Risk Management.
<b>Location</b>	Department of Biology, University of the Azores, Ponta Delgada, Portugal.
<b>Date</b>	March 3 <sup>rd</sup> , 2016.

**2015**

<b>Title</b>	Assessment of agricultural activity and agrochemicals impact on mechanisms associated with male fertility.
<b>Class</b>	Environment and Public Health – Bachelor in Civil Protection and Risk Management.
<b>Location</b>	Department of Biology, University of the Azores, Ponta Delgada, Portugal.
<b>Date</b>	March 2 <sup>nd</sup> , 2015

**2014**

<b>Title</b>	Assessment of agricultural activity and agrochemicals impact on mechanisms associated with male fertility.
<b>Class</b>	Toxicology – Bachelor in Biology.
<b>Location</b>	Department of Biology, University of the Azores, Ponta Delgada, Portugal.
<b>Date</b>	December 3 <sup>rd</sup> , 2014

**ATTENDANCE AT SCIENTIFIC EVENTS****ATTENDANCE AT NATIONAL SCIENTIFIC MEETINGS****2019**

<b>Event</b>	Lecture: Aspectos celulares y moleculares del gameto masculino y su implicación en los procesos reproductivos. Organized by Faculty of Sciences and Technology of the University of the Azores.
<b>Location</b>	University of the Azores, Ponta Delgada, Portugal.
<b>Date</b>	May 2 <sup>nd</sup> 2019

**2018**

<b>Event</b>	Lecture: Single cell RNAseq of brain cerebral cavernous malformations (CCM)-deficient endothelium reveals cell populations with endothelial and mesenchymal characteristics. Organized by American Corners Portugal and University of the Azores.
<b>Location</b>	University of the Azores, Ponta Delgada, Portugal.
<b>Date</b>	November 19 <sup>th</sup> 2018

**2017**

<b>Event</b>	3 <sup>rd</sup> cE3c Annual Meeting – Frontiers in E3. Organized by Centre for Ecology, Evolution and Environmental Changes (cE3c).
<b>Location</b>	University of the Azores, Ponta Delgada, Portugal.
<b>Date</b>	June 5 <sup>th</sup> and June 6 <sup>th</sup> , 2017.

**2014**

<b>Event</b>	I Jornadas de Investigação Clínica. Promoted by Hospital do Divino Espírito Santo (HDES) de Ponta Delgada.
<b>Location</b>	Ponta Delgada, Azores, Portugal.
<b>Date</b>	April 5 <sup>th</sup> , 2014.

**ORGANIZATION OF SCIENTIFIC EVENTS**

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**WORKSHOPS****2018**

<b>Event</b>	The impact of natural and anthropogenic pollution on ecosystems and human health: which indicators should we use? Organized by eChanges team of the Centre for Ecology, Evolution and Environmental Changes (cE3c) and IERS team of the Azorean Biodiversity Group (GBA). Supported by project NitroPortugal.
<b>Role</b>	Workshop organizer.
<b>Location</b>	Faculty of Sciences and Technology, University of the Azores, Ponta Delgada, Portugal.
<b>Date</b>	September 17 <sup>th</sup> , 2018 (3,5 hours).