

## **FILIFE LOPES**

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## **WORK EXPERIENCE**

### **CURRENT POSITION**

Since November 2018 - Researcher - Medical Entomology - Institute of Hygiene and Tropical Medicine, NOVA University of Lisbon, Portugal.

### **CURRENT RESEARCH INTERESTS**

Natural History collections (collection management and preservation), medical entomology, biodiversity informatics, science communication/dissemination, citizen science

### **PREVIOUS WORK EXPERIENCE**

January 2013 – October 2018- Post-doctoral fellowship - National Museum of Natural History and Science, University of Lisbon, Portugal. Curator of the entomological collection. Natural history collection data digitization, management and accessibility. Implementation of the institutional digital repository ([www.digital.museum.ul.pt](http://www.digital.museum.ul.pt)).

June 2011 - November 2012 – Position in the European project “Natural Europe” - National Museum of Natural History and Science, University of Lisbon, Portugal. Natural history collection digitization and management of digital contents, metadata management, resource contribution to the Europeana ([www.europeana.eu](http://www.europeana.eu)) digital library.

2009 –2010 – Post-doctoral fellowship in the European project “EPIWORK” - LASIGE (Large-Scale Informatics Systems Laboratory), Faculty of Sciences of the Lisbon University, Portugal. Development of a metadata model for the management of epidemiological data and implementation of the digital platform “Epidemic Marketplace”, for the management of epidemiological data.

2003-2008 – PhD Fellowship – Factors affecting the Malaria parasite, *Plasmodium*, sporogonic development - Institute of Hygiene and Tropical Medicine, NOVA University of Lisbon, Portugal.

2001 – 2003 – Research fellowship at the Malaria Unit of the Institute of Tropical Medicine and Hygiene of the New Lisbon University. Working on the study of *Plasmodium* gene expression during the sporogonic development to assess the effect of immune factors and anti-malarial drugs.

## **EDUCATION**

### **ACADEMIC EDUCATION**

2021 – Post-graduation on Management of Information Systems and Technologies (70 ECTS) – NOVA Information Management School, Portugal.

2010 - Master’s in biomedical informatics - Faculty of Sciences of the University of Lisbon, Portugal.

2009 - PhD in Biomedical Sciences, Parasitology - Institute of Hygiene and Tropical Medicine, NOVA University of Lisbon, Portugal.

2001 - Graduated in Biology – Madeira University, Portugal.

### **INTERNSHIPS | SHORT TERM SCIENTIFIC MISSIONS | SCIENTIFIC EXPEDITIONS**

October 2019- 10 days - Field work and teaching - COBIO-NET project - Príncipe Island, São Tomé e Príncipe - 10 days.

10-28 September 2016- Participation on the scientific expedition "Oceanographic Surveys Biometore 7 & 8" - Leg II – on board of the research ship “Noruega”- Funchal- Lisboa, survey of the sea mounts “Seine” and “Gorringe” – Biometore project.

May - July 2004 - Short term mission for the development of single and mixed infections of the Malaria parasites *Plasmodium falciparum* and *Plasmodium vivax* in *Anopheles albimanus* - dynamics of transmission and immunologic

evasion - Malaria vaccine and Drug Testing Center of the Immunology Institute del Valle, del Valle University, in Buenaventura and Cali, Colombia.

September 2000 - October 2001 – Internship on the molecular study of Oculopharyngeal muscular dystrophy (OPMD) in Portuguese patients – Molecular Genetics Unit, Institute of medical Genetics Doutor Jacinto Magalhães, Oporto, Portugal.

### **SHORT COURSES | TRAINING**

October -December 2021 - Course “The scientists and science communication” – NOVA University of Lisbon – School of Social Sciences and Humanities.

April 2020- Designing Big Data Healthcare Studies (Part 1 and 2). Online course - LinkedIn Learning.

April 2020- Learning Python - Online course - LinkedIn Learning.

March 2020- Business and Data Analytics with SQL. Online course - Udemy.

February 2020- R Programming A to Z: R for Data Science with Real Exercises. Online course - Udemy.

5-9 October 2015 – Workshop “An introduction to geometric morphometrics using R” - CIBIO-InBIO, Vairão, Portugal.

6-10 July 2015 – Practical course on Phylogeography - Centre for Ecology, Evolution and Environmental Changes (cE3c), Faculty of Sciences of the University of Lisbon, Portugal.

15-17 October 2013- VI Course on Digital imaging for Biodiversity - GBIF Spain, Royal Botanical garden (CSIC), Madrid, Spain.

1-6 July 2012- Course “*pSkills: Developing Programming Skills by means of modern Educational Programming Languages*”, Crete, Greece.

6-8 March 2012- Course “Synthesis advanced training in Collections Management – Information Networks (digitization, IT and related activities for database and collections management) - Royal Museum for Central Africa, Tervuren, Belgium.

October-November 2011- 36 hours - Course on photography of Natural History objects. National Museum of Natural History and Science, University of Lisbon, Portugal.

1-2 July 2011- Workshop on collection management software Specify 6. Natural History Society, Torres Vedras, Portugal.

9-13 May 2011- Course “*Programmatic access to biological databases (Java)*” - EMBL- European Bioinformatics Institute (EBI), Hinxton, Cambridge, England.

19-22 October 2008- Workshop on *Plasmodium* transfection - COST Action 857- “*Apicomplexan Biology in the Post-Genomic Era*”, Faro, Portugal.

13-17 October 2008- Workshop on Populational Genetics in Malaria: Parasites, Vectors and Human – Iberic Malaria Platform - Institute of Hygiene and Tropical Medicine, NOVA University of Lisbon, Portugal.

17-26 April 2006- 80 hours - Course on Animal Experimentation - FELASA category C – By Institute of Molecular and Cellular Biology, Universidade do Porto at Institute of Hygiene and Tropical Medicine, NOVA University of Lisbon, Portugal.

October 2005 – February 2006- Workshop on Scientific Illustration – Research Center of Anatomy and Scientific Illustration Studies, Fine Arts Faculty of the University of Lisbon, Portugal.

### **LANGUAGES**

Native Portuguese speaker, English (excellent), Spanish (very good), French (good)

1998- Certificate in Advanced English - University of Cambridge.

1994- First Certificate in English - University of Cambridge.

## **SCIENTIFIC | DATA MANAGEMENT | SCIENCE COMMUNICATION ACTIVITIES**

### **PARTICIPATION IN RESEARCH PROJECTS**

2018 - 2022- NanoCell2SEC project – “Bio-inspired sustainable optical security feature solutions from nanocellulose composites structural coloration”. Coordinator of Activity 2- “Insect survey and characterization of their photonic response”. Reference no. 30529, funded by POR Lisboa & FCT.

2018 - 2022 - COBIO-NET project - “Coastal biodiversity and food security in peri-urban Sub-Saharan Africa: assessment, capacity building and regional networking in contrasting Indian and Atlantic Oceans”, funded by the Aga Khan foundation.

2014 - 2020 - PRISC- Portuguese Research Infrastructure for Scientific Collections (Portuguese National Roadmap of Strategic Infrastructures). Funding: FCT, Portugal & FEDER, EU.

Porbiota- Porbiota- Portuguese E-Infrastructure for Information and Research on Biodiversity (Portuguese National Roadmap of Strategic Infrastructures). Funding: FCT, Portugal & FEDER, EU.

2015-2017 – BIOMETORE project, funded by the EEA grants. Development of a metadata model for biological specimens in museum collections.

2015-2017 - Green Learning Network ([www.greenlearningnetwork.eu](http://www.greenlearningnetwork.eu)), funded by the European Commission Lifelong Learning Programme.

2011- 2012 - European project Natural Europe ([www.natural-europe.eu](http://www.natural-europe.eu)), funded by the European Commission through the ICT PSP.

2009-2010 - European project Epiwork ([www.epiwork.eu](http://www.epiwork.eu)), funded by the FP7 Programme.

### **CITIZEN SCIENCE PROJECTS**

Since 2019 – Involved in management and dissemination activities related with MosquitoWeb (<https://mosquitoweb.ihmt.unl.pt>) a platform for the public engagement and monitoring of mosquito species in Portugal.

2019 – 2020 – Project on the Zooniverse platform for specimen label data transcription, of the entomological collection of the National Museum of Natural History and Science, University of Lisbon. <https://www.zooniverse.org/projects/lfilipevsl/mb07-the-insects-of-the-museu-nacional-de-historia-natural-e-da-ciencia>

### **SCIENTIFIC DATA MANAGEMENT AND PUBLISHING**

2019 – Publication of the dataset “Insect Collection from the Museu Nacional de História Natural e da Ciência, Universidade de Lisboa, Portugal”. 39139 records. <https://www.gbif.org/dataset/79673413-746f-48f2-bd8a-7cf27807317e>

2019 - Publication of the dataset “IICT Tabanidae Collection”. Instituto de Investigação Científica Tropical. 1319 records. <https://www.gbif.org/dataset/562e4391-c8f6-4835-8e91-beb85b094a18>

2013 - 2018 - Setup and administration of the institutional digital library “MUNHAC Digital” (<http://digital.museus.ul.pt>) - National Museum of Natural History and Science, University of Lisbon, Portugal.

2013-2018 Administrator of the Integrated Publishing Toolkit platform (<http://gbifpt.museus.ulisboa.pt>) for the publication of data in GBIF (Global Biodiversity Information Facility - [www.gbif.org](http://www.gbif.org)) - National Museum of Natural History and Science, University of Lisbon, Portugal.

2017- Biometore project deliverable and definition of metadata profile for museum specimens- “Guidelines for data digitations and digital storage and accessibility” for the Biometore project: <http://digital.museus.ul.pt/files/original/Biometore/Biometore-DataDeliverable-v1.0.pdf>

2014 - Publication in the GBIF of a large dataset (over 30,000 records) based in the MUHNAC insect collection catalogue. <http://www.gbif.org/dataset/79673413-746f-48f2-bd8a-7cf27807317e>

2011-2012- Publishing of digital resources (c.a. 3000) and their metadata in the European Digital Library Europeana ([www.europeana.eu](http://www.europeana.eu)). Natural Europe Project - National Museum of Natural History and Science, University of Lisbon, Portugal.

2011-2012- Creation and publishing of several OER (Open Educational Resources for the Natural Europe Project - National Museum of Natural History and Science, University of Lisbon, Portugal.

### **MUSEUM | SCIENCE EXHIBITS**

31 May – 3 July 2022 – Coordination and curatorship - Exhibit “Bioinspiration: insect color driving innovation”. National Museum of Natural History and Science, University of Lisbon, Portugal. <https://www.museus.ulisboa.pt/pt-pt/bioinspiracao-a-cor-dos-insetos-na-base-da-inovacao>

13 December 2018 - 28 February 2019. Exhibit “III Mostra da ENTOMOTECA Henrique Ribeiro e Helena Ramos - A entomologia médica e a medicina tropical portuguesa (1902-1966)”. At the Institute of Hygiene and Tropical Medicine, NOVA University of Lisbon, Portugal. <https://ciuhct.org/application/files/2415/5207/1229/GuiaDeExposicao.pdf>

2014 - 2018 – Participation in the organization of the monthly exhibit “Object of the Month”, at the National Museum of Natural History and Science, University of Lisbon, Portugal. Responsible for the design (until April 2017) e object/specimen photography. Eg.: <https://museus.ulisboa.pt/pt-pt/node/920>

2018 – Collaboration in the preparation of the “Specere” exhibit. Museography and scientific contents of the entomological display, graphic design for communication resources. At the National Museum of Natural History and Science, University of Lisbon, Portugal. <https://museus.ulisboa.pt/pt-pt/specere>

- 2017- Development of scientific contents, website and graphic design of the exhibit “Butterflies: Natural Patrimonium of Salvaterra de Magos”, at the Royal Falconry of Salvaterra de Magos. <https://expoborboletasalvaterra.wordpress.com>
- 17 December 2016 - 28 February 2017- Curatorship of the exhibit “100 Moths”, at the National Museum of Natural History and Science, University of Lisbon, Portugal. <https://museus.ulisboa.pt/pt-pt/cem-tracas>
- 5 April 2016 - 10 July 2016- Collaboration on the development of the work, review of the scientific and museography of the “Mnemon” exhibit, at the National Museum of Natural History and Science, University of Lisbon, Portugal. <https://museus.ulisboa.pt/pt-pt/exposicao-mnemon>

## SCIENTIFIC COLLECTION CURATION

Since 2018- Co-curator of the entomological collection of the Institute of Hygiene and Tropical Medicine, NOVA University of Lisbon.

2015-2019- Curator of the insect collection of the National Museum of Natural History and Science, Lisbon University

2013-2014- Curator of the insect, arachnid and myriad collections of the National Museum of Natural History and Science, Lisbon University

2012- Assistant curator for the Order Diptera of the National Museum of Natural History and Science, Lisbon University

## TEACHING | ACTIVITIES

### TEACHING IN MASTERS AND PHD PROGRAMS

**The Doctoral Program in Biomedical Sciences - Institute of Hygiene and Tropical Medicine, NOVA University of Lisbon, Portugal**

2021-2022 – Teaching - Applications in Medical Parasitology

**Master in Medical Parasitology - Institute of Hygiene and Tropical Medicine, NOVA University of Lisbon, Portugal**

2021-2022 - Coordination and teaching – Biostatistics curricular unit

2021-2022 – Teaching – “Entomological techniques in epidemiological assessment” curricular unit

2021-2022 – Teaching (practical laboratory classes) – “Dengue, yellow fever and other mosquito-borne arboviroses” curricular unit

2019-2020; 2020-2021; 2021-2022 – Teaching (practical laboratory classes) – “Medical Entomology” curricular unit

**Master in Medical Parasitology - Institute of Hygiene and Tropical Medicine, NOVA University of Lisbon / Medicine Faculty, Katyavala Bwila University, Angola**

2021-2022 - Teaching – Biostatistics curricular unit

2021-2022 – Teaching – Medical Entomology

**Master and Ph. D Program in Biodiversity Informatics, Faculty of Agricultural Sciences, University of Abomey-Calavi, Benin**

2021-2022 – Coordination and Teaching of a “Public health of Vector Borne Diseases” curricular unit (1 ECTS)

### COURSE COORDINATION/ORGANIZATION | TEACHING

5-9 September 2022- 3 ECTS- Organization, coordination, and teaching - Advanced course “Insect Collections and Medical and Forensic Entomology” - Institute of Hygiene and Tropical Medicine, NOVA University of Lisbon. <https://www.ihmt.unl.pt/education/curso-de-entomologia/>

6-10 September 2021- 30 hours - Organization, coordination, and teaching - Advanced course “Insect Collections and Medical and Forensic Entomology” - Institute of Hygiene and Tropical Medicine, NOVA University of Lisbon.

15-19 October 2018- Organization, coordination, and teaching - Advanced course “Entomological Collections, Insect Systematics and Evolution” (30 hours) - organized by the Centre for Ecology, Evolution and Environmental Changes (cE3c) and National Museum of Natural History and Science, University of Lisbon, Portugal. <http://ce3c.ciencias.ulisboa.pt/training/ver.php?id=107>

- October 2019- 8 hours - Organization and teaching – Natural History Collection Data Management. Príncipe Island, São Tomé and Príncipe.
- 15-19 October 2018- 3 ECTS -Organization, coordination, and teaching - Advanced course “Entomological Collections, Insect Systematics and Evolution” - Centre for Ecology, Evolution and Environmental Changes (cE3c) and National Museum of Natural History and Science, University of Lisbon, Portugal. <http://ce3c.ciencias.ulisboa.pt/training/ver.php?id=107>
- 11-15 Setember 2017- 30 hours - Teaching and organization of the advanced course “Entomological Collections, Insect Systematics and Evolution” - Museu Nacional de História Natural e da Ciência, Universidade de Lisboa, Lisboa, Portugal. <http://www.museus.ulisboa.pt/pt-pt/node/1724>
- 6-10 November 2017- Teaching of a class on entomological collection management and preservation, at the advanced course “Natural History Collections and Biodiversity”, at Museu Nacional de História Natural e da Ciência, Universidade de Lisboa, Lisboa, Portugal. <http://ce3c.ciencias.ulisboa.pt/training/ver.php?id=59>
- 2018- Workshop on “Insect Preparation” –XXI National Meeting of Biology Students, NOVA School of Science and Technology, Almada, Portugal.
- 2017- 5 hours- Organization and Teaching – Workshop on “Insect Preparation”:  
 18 March 2017- <http://www.museus.ulisboa.pt/pt-pt/node/1600>  
 1 April 2017- <http://www.museus.ulisboa.pt/pt-pt/node/1637>  
 3 June 2017- <http://www.museus.ulisboa.pt/pt-pt/node/1708>
- 2016- 2 week – Organization, coordination and teaching - Course on insect collection management – Natural History Museum of Maputo, Museu de História Natural de Maputo, Maputo, Mozambique. <http://digital.museus.ul.pt/items/show/3948>
- 2015 – Teaching in the post-graduation course “Natural History Collections and Biodiversity”, at the National Museum of Natural History and Science, Lisbon University: i) 1 hour class on digitization/imaging of natural history collection specimens; ii) 3,5 hour practical class on management of entomological collections.
- 2012 – 2018 – Demonstration of the 3D scanning process for natural history objects in several post-graduation courses and Master classes.
- 2005 - 2008 – Assistance to laboratory classes on parasitology (post-graduation, Master and PhD students).

## STUDENT SUPERVISION

- Since 2021 - Supervisor of Jesuína Nancassa – Master thesis on “Methods for long-term preservation of mosquitoes (Diptera, Culicidae) in scientific collections”. Master in Medical Parasitology - Institute of Hygiene and Tropical Medicine, NOVA University of Lisbon, Portugal.
- Since 2021 - Supervisor of Candido Mendonça – Master thesis on management and study of the flies (Diptera, Brachycera) of the IHMT Entomological Collection. Master in Medical Parasitology - Institute of Hygiene and Tropical Medicine, NOVA University of Lisbon, Portugal.
- 2018-2019- Supervisor of Leonor Venceslau – Master thesis on “Biodiversity informatics - Entomological data processing, analysis and visualization”. Master Programme in Bioinformatics and Computational Biology - Faculty of Sciences of the University of Lisbon, Portugal.
- 2018-2019- Co-supervisor of Henrique Niza – Master thesis on “African Marine Invertebrate Data Analysis and Imaging: a Dataset and Digital platform for Research, Education and Outreach”. Master Programme in Bioinformatics and Computational Biology - Faculty of Sciences of the University of Lisbon, Portugal.
- 2014-2016 – Supervisor of Pedro Araújo- Master thesis in scientific illustration on: Lepidoptera – Illustration of Lepidoptera specimens from the entomologic collection of the National Museum of Natural History and Science, Lisbon University. Master in Drawing, Faculty of Fine Arts, Lisbon University.
- 2014-2016 – Supervisor of Tetyana Chkryra- Master thesis in scientific illustration on: Lepidoptera – Illustration of Lepidoptera specimens from the entomologic collection of the National Museum of Natural History and Science, Lisbon University. Master in Drawing, Faculty of Fine Arts, Lisbon University.

2014-2018- Supervision of several trainees of the Professional school "Digital School", on photography, 2D/3D illustration and programming.

2016-2017- Supervision of several short-term student internships from the Erasmus + program (2 from Italy, 1 from Spain)

2013-2018- Supervision of several student internships and volunteer trainees on collection management and photography

#### OTHER SCIENCE COMMUNICATION ACTIVITIES

2013 - 2018 – Guided group visits to the scientific collection reserves of the National Museum of Natural History and Science, University of Lisbon, Portugal.

2017 - 2018- Cooperation with the Portuguese Post (CTT ) on the production of 2 series of stamps about moths of the Portuguese entomofauna.

<https://www.ctt.pt/ctt-e-investidores/comunicacao-e-patrocinos/media/noticias/borboletas-de-portugal-em-selos-dos-ctt>

<https://www.ctt.pt/dotAsset/13936811-7969-4ba5-b4b6-4cf890e46d49.pdf>

2015, 2017, 2019 - Organização e participação em several activities of the European Researchers' Night at the National Museum of Natural History and Science, Lisbon University, Portugal

#### PUBLICATIONS

##### JOURNAL PUBLICATIONS | BOOKS | BOOK CHAPTERS

Rodrigues-Filho SJM, Prado e Castro C, **Lopes LF**, Fonseca IP, Rebelo MT (2022). Size does matter: intraspecific geometric morphometric analysis of wings of the blowfly *Chrysomya albiceps* (Diptera: Calliphoridae). *Acta Tropica*, volume 235, 106662, ISSN 0001-706X. <https://doi.org/10.1016/j.actatropica.2022.106662>

Nunes V, Figueira G, **Lopes LF**, Souto P (2021). On the Natural History of the Black Winged Firefly, *Phosphaenopterus metzneri* Schaufuss, 1870 with Comparative Notes on *Phosphaenina* (Coleoptera: Lampyridae). *Annales Zoologici*, 71(3):661-691 (2021). <https://doi.org/10.3161/00034541ANZ2021.71.3.005>

Niza H, Bento M, **Lopes LF**, Cartaxana A, Correia AM (2021). A picture is worth a thousand words: using digital tools to visualise marine invertebrate diversity data along the coasts of Mozambique and São Tomé & Príncipe. *Biodiversity Data Journal* 9: e68817. <https://doi.org/10.3897/BDJ.9.e68817>

Andena SR, **Lopes LF**, Carpenter JM, Silveira OT (2021). A Brief Review of Studies on Social Wasps in Brazil. In: Prezoto F, Nascimento FS, Barbosa BC, Somavilla A (eds) *Neotropical Social Wasps*. Springer, Cham. [https://doi.org/10.1007/978-3-030-53510-0\\_1](https://doi.org/10.1007/978-3-030-53510-0_1)

Mendes LF, Bivar-de-Sousa A, Lopes LF (2021). Description of five new subspecies of *Bebearia* Hemming, 1960 and further notes on the genus (Lepidoptera: Nymphalidae, Limenitidinae, Adolaidini). *SHILAP* 49 (196):581-606. ISSN 0300-5267. <https://dialnet.unirioja.es/servlet/articulo?codigo=8388869>

Fernandes SN, **Lopes LF**, Godinho MH (2019). Recent advances in the manipulation of circularly polarised light with cellulose nanocrystal films. *Current Opinion in Solid State and Materials Science*, 23(2): 63-73.

Skoracka A, **Lopes LF**, Alves MJ, Miller A, Lewandowski M, Szydło W, Majer A, Różańska E & Kuczyński L. (2018). Genetics of lineage diversification and the evolution of host usage in the economically important wheat curl mite, *Aceria tosichella* Keifer, 1969. *BMC Evolutionary Biology*, 18:22.

Mendes LF, Bivar-de-Sousa A, Vasconcelos S, **Lopes LF** (2018). On the butterflies of genus *Precis* Hübner, 1819 known in Angola, with description of a new species (Lepidoptera: Papilionoidea: Nymphalidae: Nymphalinae). *SHILAP* 46(184):653-672.

Alves MJ, Cartaxana A, Correia A, **Lopes LF** (eds.) (2014). Professor Carlos Almaça (1934-2010) - Estado da Arte em Áreas Científicas do Seu Interesse. Museu Nacional de História Natural e da Ciência, Lisboa. <http://digital.museum.usul.pt/items/show/3752>

Alves MJ, Bastos-Silveira C, Cartaxana A, Carvalho D, Catry T, Correia AM, Granadeiro JP, **Lopes LF**, Marques PAM, Mesquita N, Rebelo R (2014). As coleções zoológicas do Museu Nacional de História Natural e da Ciência. In: Professor Carlos Almaça (1934-2010) - Estado da Arte em Áreas Científicas do Seu Interesse. MJ Alves, A Cartaxana, AM Correia, LF Lopes (eds), Museu Nacional de História Natural e da Ciência, Lisboa, pp. 289-301. <http://digital.museum.usul.pt/items/show/3763>.

Cartaxana A, Marçal A, Carvalho D, **Lopes LF** (2014). O papel das coleções de história natural no estudo e conservação de invertebrados. *Ecologi@*, 7: 15-21.

- Barata R, Paulino I, Ribeiro B, Serralheiro F, **Lopes LF**, Alves MJ (2012). Digital natural history repositories and tools for inquiry-based education. *ticEDUCA2012- II Congresso Internacional TIC e Educação*, pp. 1468-1483.
- Lopes LF**, Silva FA, Francisco C, Zamite J, Hugo F, Carla C, Silva MJ (2010). Epidemic Marketplace: An Information Management System for Epidemiological Data. *LNCS*, 6266: 31-44.
- Silva MJ, Silva F, **Lopes LF**, Couto FM (2010). Building a Digital Library for Epidemic Modelling. *Proceedings of ICDL 2010 - The International Conference on Digital Libraries 1*, p. 447-59, TERI Press - New Delhi, India. Invited Paper.
- Lopes LF**, Zamite J, Tavares B, Couto FM, Silva F, Silva MJ (2009). Automated Social Network Epidemic Data Collector. Paper presented at INForum - Informatics Symposium, Lisboa, Portugal.
- Lopes LF**, Abrantes P, Silva AP, do Rosario VE, Silveira H. (2007). *Plasmodium yoelii*: the effect of second blood meal and anti-sporozoite antibodies on development and gene expression in the mosquito vector, *Anopheles stephensi*. *Experimental Parasitology*, 115(3): 259-69.
- Silveira H, Ramos S, Abrantes P, **Lopes LF**, do Rosario VE, Abrahamsen MS. (2007). Effect of chloroquine on gene expression of *Plasmodium yoelii nigeriensis* during its sporogonic development in the mosquito vector. *Malaria Journal*, 6(1): 84.
- Abrantes P, **Lopes LF**, do Rosario VE, Silveira H (2005). Effect of chloroquine on the expression of genes involved in the mosquito immune response to Plasmodium infection. *Insect Biochemistry and Molecular Biology*, 35(10): 1124-32.
- Lopes LF**, Vieira EM, Evangelista T, Jorge P, Santos MR (2001). The genetic study of nine Portuguese patients with Oculopharyngeal Muscular Dystrophy (OPMD). *European Journal of Human Genetics*, vol. 9 (Suppl. 1): 403.

### SCIENTIFIC COMMUNICATION | DISSEMINATION

- Pinto B, **Lopes LF** (Eds.) (2016). Reportagem Especial – Adaptação às alterações climáticas em Portugal. ClimAdaPT project, Foundation of the Faculty of Sciences of the Lisbon University, Lisbon, Portugal. – Comic book on adaptation to climate change in Portugal. <https://ce3c.ciencias.ulisboa.pt/research/publications/ver.php?id=574>
- Araújo P, Chkyrya T, **Lopes LF** (Eds.) (2015). Cem Traças. Associação Tentáculo and National Museum of Natural History and Science, University of Lisbon, Lisbon, Portugal Museu Nacional de História Natural e da Ciência, Lisbon, Portugal. - Scientific illustration book on moths from the MUHNAC insect collection. <https://atentaculo.weebly.com/100tracas.html>
- Pinto B, **Lopes LF** (Eds.) (2015). Portugal 2055- Uma BD sobre alterações climáticas no nosso país. Museu Nacional de História Natural e da Ciência & Associação Tentáculo, Lisboa. - Comic book on climate changes in Portugal <http://digital.museus.ul.pt/items/show/3788>

### COMUNICATIONS AT SCIENTIFIC MEETINGS AND SEMINARS

- Venceslau L, **Lopes LF** (2019). Comparison of Automated Georeferencing Tools Using Insect Collection Data. *Biodiversity Information Science and Standards* 3: e37345. *Biodiversity\_Next*, Netherlands, Leiden, 22 – 25 October 2019. <https://doi.org/10.3897/biss.3.37345>
- Lopes LF**, Venceslau L, da Costa L. (2019). Citizen (Science) Involvement in Data Digitization and Enrichment of the Insect Collection of the Museu Nacional de História Natural e da Ciência (Lisboa, Portugal). *Biodiversity Information Science and Standards* 3: e36346. *Biodiversity\_Next*, Netherlands, Leiden, 22 – 25 October 2019. <https://doi.org/10.3897/biss.3.36346>
- Lopes LF** (2019). Gestão e acessibilidade de dados de coleções de história natural do Museu Nacional de História Natural e da Ciência. Oral communication at the Fundação Portuguesa das Comunicações – Museu das Comunicações. Lisboa, 8 de novembro de 2019.
- Lopes LF**, Venceslau L, da Costa L. (2019). MB07 - Insetos da coleção entomológica do Museu Nacional de História Natural e da Ciência - Projeto de ciência cidadã para transcrição de dados e determinação taxonómica. Oral communication at the 2.º Encontro Nacional De Ciência Cidadã. Academia das Ciências de Lisboa. 24 - 25 October 2019.
- Lopes LF**, Novo T, Tavares A, Sousa C (2019). MosquitoWeb – Uma plataforma de ciência cidadã para vigilância entomológica. 2.º Encontro Nacional De Ciência Cidadã. Academia das Ciências de Lisboa. 24 - 25 October 2019.
- Lopes LF**, Venceslau L, da Costa L. (2019). História natural e da ciência e envolvimento da comunidade em tarefas taxonómicas e de digitalização. 7º Congresso da Rede de Comunicação de Ciência e Tecnologia de Portugal – SciComPT. Aveiro. 30 - 31 May 2019.
- Silva AR, Franco F, **Lopes LF**, Antunes-Ferreira N (2018). Luís de Castro do Rio. Um rosto com história. 3º Encontro Nacional de Museus com Coleções de Arqueologia. Museu nacional de Arqueologia. Lisboa, 19 October 2018.
- Lopes LF**, Soares L, Marques M, Alves MJ & Cartaxana A (2017). Natural History Collections: Why are they important? Oral communication at the Open Day Biometore. IPMA Algés, 28 April 2017.
- Lopes LF** (2016). Gestão de dados de biodiversidade- A experiência com coleções científicas do Museu Nacional de História Natural e da Ciência. Oral communication at the Encontro de Curadoria Digital, Lisboa, 29-30 June 2016.

- Lopes LF**, Bastos-Silveira C & Mendes LF (2016). Revisiting the Machilidae (Microcoryphia) of Portugal: An Integrative Approach. Poster presentation at the Congresso Ibérico de Entomologia, Lisboa.
- Barata R, **Lopes LF** & Pinto B (2016). Creative tools to engage for sustainability. Poster presentation at the anual meeting of the CE3C. Faculdade de Ciências, Universidade de Lisboa, 27-28 June 2016.
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- Araújo P, Chkyrya T, **Lopes LF** (2016). Cem Traças – um projecto de ilustração científica e divulgação da colecção Entomológica do Museu Nacional de História Natural e da Ciência». Oral communication at the SciCom 2016, Pavilhão do Conhecimento, Lisboa, 26 - 27 May 2016.
- Teixeira C, Carvalho D, **Lopes LF**, Póvoas L, Carvalho P & Santos VF (2015). Improving Conservation Standards on the Museums of the University of Lisbon: One Step Forward for the Natural History Collections. Oral communication at the 2<sup>nd</sup> International Conservation Symposium-Workshop of Natural History Collections. Barcelona, Spain, 6-9 May 2015.
- Lopes LF**, Keller RA, Correia AM (2014). The entomological collection of the National Museum of Natural History and Science (Lisbon, Portugal). Oral communication at the XVI Congresso Ibérico de Entomologia, in Badajoz, Spain, 2-4 October 2014.
- Lourenço M, Pascoal AM, Teixeira C, **Lopes LF** (2013). Documentation of the Collections and Patrimony of the Lisbon University. Oral communication at the Encontros de Outono do ICOM-Portugal, Museu da Electricidade, Lisboa, 11 November 2013.
- Lourenço MC, Teixeira C, **Lopes LF** (2013). Tools for evaluating collections: Assessing the Natural History collections of the museums of the University of Lisbon. Universeum. Oral communication at the XIV Universeum network meeting, Valencia, Spain, 6-8 June 2013.
- Lopes LF**, Zamora F, Rocha L, Marques PX, Mendes C, Martinez-Barnetche J, Leandro MJ, Arevalo M, Herrera S, do Rosario VE, Arez AP, Silveira H (2007). *Anopheles albimanus* immune response to single and mixed infections with *Plasmodium falciparum* and *Plasmodium vivax*. Trop Med Int Health, vol. 12 (Suppl. 1): 201.
- Lopes LF**, Marques PX, Mendes C, Leandro MJ, Zamora F, Rocha L, Arevalo M, Herrera S, do Rosario VE, Silveira H, Arez AP (2005). *Plasmodium vivax* and *Plasmodium falciparum* single and mixed infections in *Anopheles albimanus* mosquitoes: transmission dynamics and immune response. Poster presentation at the scientific meeting “Vivax Malaria research: 2005 and Beyond”, at The Institute for Genomic Research (TIGR), Rockville, EUA, 9 - 10 December 2005.
- Lopes LF**, Marques PX, Mendes C, Leandro MJ, Zamora F, Rocha L, Arevalo M, Herrera S, do Rosário VE, Silveira H, Arez AP (2005). Single and mixed *Plasmodium* sp. infections in *Anopheles* mosquitoes: transmission dynamics and immune response. Poster presentation at the COST Action 857 “Apicomplexan Biology in the Post-Genomic Era”, in Beatenburg, Switzerland, 8 - 11 May 2005.
- Lopes LF**, Abrantes P, Silva AP, do Rosario VE, Silveira H (2004). The effect of host factors on gene expression and development of early sporogonic stages of Plasmodium. Oral communication at the COST Action 857 and HHMI “1st PhD Students’ Workshop”, at Brussels, Belgium, 12 - 15 September 2004.
- Lopes LF**, Ramos S, do Rosário VE, Silveira H (2004). Blood meal components are able to modulate Plasmodium yoelii gene expression during the sporogonic cycle in the mosquito vector. Oral presentation at COST action 857 “Apicomplexan Biology in the Post-Genomic Era”, in Lisbon, May 2004.
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#### SCIENTIFIC AND CULTURAL ASSOCIATIONS

Since 2013- Member of ICOM, the International Council of Museums, registered on the NATHIST (Natural History) Committee.

Since 2010- Founding member and President of the Direction Board of the Cultural Association Tentáculo ([www.atentaculo.weebly.com](http://www.atentaculo.weebly.com)).

2014- Member of the Portuguese Entomology Society.

2013-2014- Member of UNIVERSEUM, the European Academic Heritage Network

#### OTHER EDITORIAL | REFEREE/REVIEWER

2020 – Co-editor of the comic book “Please Be Nice to Me e Outras Estórias” by the author Xico Santos, published in 2020 by the Associação Tentáculo. <https://atentaculo.weebly.com/pbntm.html>

2020 – Co-editor of the illustration colouring book “Monstros Urbanos” na anthology, published in 2020 by the Associação Tentáculo. <https://atentaculo.weebly.com/monstrosurbanos.html>



2017/2019 – Co-coordination of the production of the comic book “Rafael Bordalo Pinheiro – Uma Vida em Desenhos”, on the life of Rafael Bordalo Pinheiro, published in 2019. A collaboration between the Bordalo Pinheiro Museum and the Associação Tentáculo. <https://atentaculo.weebly.com/bordalo.html>

Since 2009- Editor of the comic anthology “Zona”. <https://atentaculo.weebly.com/zona.html>

2012 – Editor of the illustration book “Leporidae”. <http://atentaculo.weebly.com/leporidae.html>

#### **EVENT ORGANIZATION**

Organization of several art exhibits, book presentations and other related activities

Collaboration in the organization of several scientific meetings and courses/workshops.