

## CURRICULUM VITAE

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## CURRENT POSITION

Since January 2013 - Post-doctoral fellow at the Museu Nacional de História Natural e da Ciência – Universidade de Lisboa. Involved in the collection management, implementation of collection management software, content digitalization and collection metadata publication. Use of preserved specimens in molecular studies. Phylogeny of arthropod groups.

## PREVIOUS WORK EXPERIENCE

June 2011 - November 2012 – Contract from the European project Natural Europe, at the National Museum of Natural History and Science (Lisbon University). Involved in the collection and digitalization of natural history contents, metadata annotation preparation for submission to the Europeana ([www.europeana.eu](http://www.europeana.eu)) digital library.

February 2009 – November 2010 – Post-doctoral Fellowship at LASIGE (Large-Scale Informatics Systems Laboratory), at the Faculty of Sciences of the Lisbon University. Working in the EPIWORK project, in the development of the Epidemic Marketplace - a platform for the management of Epidemiological data.

## EDUCATION AND TRAINING

2010- Concluded the Masters in Biomedical Informatics at the Faculty of Sciences of the Lisbon University. [http://en.di.fc.ul.pt/Informatica/Biomedical\\_Informatics\\_\(Master\)](http://en.di.fc.ul.pt/Informatica/Biomedical_Informatics_(Master))

June 2003 - January 2009 - PhD student in the Malaria Unit, CMDT-LA, of Institute of Tropical Medicine and Hygiene – New University of Lisbon, with the project entitled "The effect of host factors on gene expression and development of early sporogonic stages of Plasmodium".

May - July 2004 - Field work in "Single and mixed Plasmodium sp. infections in Anopheles mosquitoes: transmission dynamics and immune evasion", at the Malaria vaccine and Drug Testing Center of the Instituto de Immunologia del Valle, Universidad del Valle, in Buenaventura and Cali, Colombia.

2001 - Graduated in Biology, by the Universidade da Madeira, Portugal.

September 2000 - October 2001 - Practical laboratory work on the subject "Molecular study of Oculopharyngeal muscular dystrophy (OPMD) in Portuguese patients", at the Unidade de Genética Molecular- Instituto de Genética Médica Jacinto magalhães, Oporto.

February – July 1999 - Exchange student (Erasmus program), at the Université D'Orléans, in Orleans, France.

## Courses and workshops

15-17 October 2013- VI Course on digital imaging for biodiversity studies. Organized by GBIF Spain at the Royal Botanic Garden (CSIC), Madrid, Spain. <http://www.gbif.es/formaciondetalles.php?IDForm=116#ad-image-1>

1-6 July 2012- Course "pSkills: Developing Programming Skills by means of modern Educational Programming Languages", at Crete, Greece. [http://pskills.ced.tuc.gr/Summer\\_School\\_2012](http://pskills.ced.tuc.gr/Summer_School_2012)

6-8 March 2012- Course "Module NA3: Information Networks (digitization, IT and related activities for database and collections management)", organized by the Synthesys at Tervuren, Belgium. <http://synthesys.cybertaxonomy.africamuseum.be/node/306?107529035=1>

1-2 July 2011- Workshop on Specify 6, a software for the management of natural history record, organized by the Society for Natural History, in Torres Vedras, Portugal.

9-13 May 2011- Course "Programmatic access to biological databases (Java)", organized by the EMBL- European Bioinformatics Institute (EBI), at Hinxton, Cambridge, UK. [http://www.ebi.ac.uk/training/hands-on/course\\_110509\\_progjava.html#programme](http://www.ebi.ac.uk/training/hands-on/course_110509_progjava.html#programme)

19-22 October 2008- "Transfection workshop" for young scientists, organized by the COST Action 857- "Apicomplexan Biology in the Post-Genomic Era", at Lisbon, Portugal.

13-17 October 2008- Workshop on Malaria population genetics: parasites, vectors and humans. At IHMT in Lisbon, Portugal, coordinated by the Iberian Malaria Platform.

17-26 April 2006- Course on Laboratory animal science corresponding to FELASA category C, coordinated by the Instituto de Biologia Molecular e Celular (IBMC), Universidade do Porto, with the duration of 80 hours.

October 2005 - February 2006- Scientific illustration workshop, organized by the Faculdade de Belas Artes, Universidade de Lisboa and by the Centro de Investigação e Estudos de Anatomia e Ilustração Científica (CIEAIC).

### 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.

### Computer skills

Statistics: R and SPSS; Linux command line; SQL databases (MySQL and PostgreSQL); JAVA, Javascript and PHP; HTML, XML and Ajax; Specify6, collection management software; Image, video and 3D edition (several software)

### RESEARCH INTERESTS

Natural history collections, Evolution and phylogeny, Data management, Science dissemination

### PROJECTS

#### Projects

Since 2015 - Green Learning Network, funded by the European Commission Lifelong Learning Programme. <http://www.greenlearningnetwork.eu>

2011- 2012 - European project Natural Europe, funded by the European Commission through the ICT PSP. <http://www.natural-europe.eu>

2009-2010 - European project Epiwork, funded by the FP7 Programme. <http://www.epiwork.eu>

### RESEARCH UNIT

Centre for Ecology, Evolution and Environmental Changes (Ce3C)

### RESEARCH INFRASTRUCTURE

PRISC- Portuguese Research Infrastructure of Scientific Collections (Portuguese National Roadmap of Strategic Infrastructures), 2014-2019.

Porbiota- Portuguese E-Infrastructure for Information and Research on Biodiversity (Portuguese National Roadmap of Strategic Infrastructures), 2014-2019.

### PUBLICATIONS

<https://scholar.google.pt/citations?user=aFYcbbMAAAJ&hl=en>

Pinto B, **Lopes, LF** (eds) (2015). Portugal 2055- Uma BD sobre alterações climáticas no nosso país. (Comic book on climate changes in Portugal). Museu Nacional de História Natural e da Ciência, Lisboa.

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.museus.ul.pt/items/show/3752>

Alves MJ, Bastos-Silveira C, Cartaxana A, Carvalho D, Catty 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.museus.ul.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. *LNCIS*, 6266: 31-44.

**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** (2000). "Computer virus: Demystification". *PC Informática Manual*, nº 49, 19 July 2000, pp: 11-14.

## PRESENTATIONS AT SCIENTIFIC MEETINGS AND SEMINARS

**Lopes LF**, Keller RA, Correia AM (2014). The entomological collection of the National Museum of Natural History and Science (Lisbon, Portugal). Oral presentation at the XVI Iberian Congress of Entology at 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. *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 presentation at the XIV Universeum network meeting, Valencia, Spain, 6-8 June 2013.

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, Lisbon, Portugal.

**Lopes LF**, Zamora F, Rocha L, Marques PX, Mendes C, Martinez-Barnette 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, USA, 9 and 10 of 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 to 11 of May, 2005.

Oral presentation on the subject "The effect of host factors on gene expression and development of early sporogonic stages of *Plasmodium*" in the COST Action 857 and HHMI "1st PhD Students' Workshop", that took place in Brussels, Belgium, between 12 and 15 of 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.

**Lopes LF**, do Rosário VE, Silveira H (2002). Modulation of *Plasmodium* and *Anopheles* gene expression by anti-*Plasmodium* antibodies. *Acta Tropica*, vol. 93 (Suppl. 1): S156-S157.

**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.

Oral presentation "Molecular study of nine Portuguese patients with Oculopharyngeal muscular dystrophy", at the Instituto de Genética Médica Jacinto Magalhães at Oporto, at 21 of March, 2001.

## Data Publishing

Since 2013- Administrator of the National Museum of Natural History and Science Integrated Publishing Toolkit platform for the publication of data in GBIF ([www.gbif.org](http://www.gbif.org)). <http://gbifpt.museum.ul.pt/ipt>

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>

Since 2013- Setup and administration of the digital library "MUNHAC Digital" serving the National Museum of Natural History and Science. Comprising over 2800 digital items (image, video, documents) and their metadata. <http://digital.museum.ul.pt>

2011-2012- Publishing of a large number of digital items (c.a. 3000) and their metadata in the European Digital Library Europeana ([www.europeana.eu](http://www.europeana.eu)) for the Natural Europe Project (<http://www.natural-europe.eu>).

2011-2012- Creation and publishing of several OER (open learning resources for the Natural Europe Project (<http://www.natural-europe.eu>)).

### **COLLECTION CURATION**

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

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

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

### **EDITORIAL AND REFEREE/REVIEWER DUTIES**

2015- Review of a paper for the Midas (Museus e estudos interdisciplinares) jornal - <http://midas.revues.org>

Since 2009- Editor of the comic magazine Zona. 11 issues published since 2009. [www.zonabd.blogspot.com](http://www.zonabd.blogspot.com)

### **TEACHING**

Demonstration of the 3D scanning process for natural history objects in post-graduation courses and Master classes.

Assistance in laboratory classes on parasitology (Master and PhD students).

### **EVENT ORGANIZATION**

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

Collaboration in the organization of several scientific meetings and courses.

### **STUDENT SUPERVISION**

Since 2014 – Pedro Araújo- Ilustração científica: Lepidoptera. Ilustração da colecção entomológica do Museu Nacional de História Natural e da Ciência. Master in Drawing, Faculty of Fine Arts, Lisbon University.

Since 2014 – Tetyana Chkyrya- Ilustração científica: Lepidoptera. Ilustração da colecção entomológica do Museu Nacional de História Natural e da Ciência. Master in Drawing, Faculty of Fine Arts, Lisbon University.

Since 2014- Supervision of several trainees of a Professional school, on photography (4 students), 2D/3D illustration (3 students) and programming (2 students).

Since 2013- Supervision of several volunteer trainees on collection management and photography

### **SCIENTIFIC AND CULTURAL SOCIETIES MEMBERSHIP**

2014- Member of the Portuguese Entomology Society.

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

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.