

André Lamúrias

Research scientist with 8+ years of experience in bringing computer science methods to bioinformatics problems. Experience in Information Retrieval, Named Entity Recognition, Entity Linking, Relation Extraction, Question Answering, as well as other NLP tasks, using machine learning, deep learning and crowdsourcing approaches. Interested in developing innovative information extraction solutions applied to real-world problems.

Research Experience

- 2021- **Post-doc Researcher**, *Aalborg University, Department of Computer Science*, Aalborg, Denmark, Graph machine learning algorithms for metagenomics datasets.
 - Supervision of BSc projects;
 - Coordination of project meetings;
 - Highly interdisciplinary team involving computer science and biology researchers
- 2020-2021 **Research Scientist**, *Priberam Labs*, Lisbon, Portugal, Zero-shot Entity Linking techniques for health records in a multilingual scenario, working in collaboration with a hospital group.
- 2013–2020 **Researcher**, *LASIGE, Faculdade de Ciências, Universidade de Lisboa*, Lisbon, Portugal, Development of machine learning approaches for automatic extraction of information from biomedical documents.
 - Co-supervised **2 MSc students**;
 - Developed **5 open-source software tools**;
 - Participated in **7 text mining competitions** (BioCreative, SemEval, BioNLP);
 - Published **10 journal papers** (Q1 SCImago Journal Index), **2 conferences** (CORE A) and **3 book chapters**.

Education

Faculdade de Ciências, Universidade de Lisboa

- Feb 2019 **PhD in Systems Biology**, *BioSYS PhD Programme*, Supervised by Francisco Couto and Luka Clarke, Approved with Distinction and Honours.
- Sep 2014 **MSc in Bioinformatics and Computational Biology**, Supervised by Francisco Couto, 17/20.
- Jul 2012 **BSc in Biochemistry with minor in Computer Science**.

Featured publications

- 2020 A. Lamurias, D. Sousa, and F. Couto, “Generating biomedical question answering corpora from Q&A forums” *IEEE Access*, vol. 8, no. 0, pp. 161042–161051

Lisbon, Portugal

☎ +351 917 157 752 • ✉ andreamurias@gmail.com
🌐 www.lamurias.com • [linkedin/andrelamurias](https://www.linkedin.com/in/andrelamurias)

- 2020 M. A. Barros, A. Lamurias, D. Sousa, P. Ruas, and F. M. Couto "COVID-19: A Semantic-Based Pipeline for Recommending Biomedical Entities" in Proceedings of the 1st Workshop on NLP for COVID-19 (Part 2) at EMNLP 2020.
- 2019 D. Sousa, A. Lamurias, and F. Couto, "A silver standard corpus of human phenotype-gene relations," in Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL 2019), vol. N19-1152, p. 1487–1492
- 2019 A. Lamurias, D. Sousa, L. Clarke, and F. Couto, "BO-LSTM: classifying relations via long short-term memory networks along biomedical ontologies," BMC Bioinformatics, vol. 20, no. 10, pp. 1–12

Grants and fellowships

- 2018-2021 DeST: Deep Semantic Tagger, supported by FCT (Fundação para a Ciência e a Tecnologia)
- 2018 BOLSTM: Classifying Relations via Long Short-Term Memory Networks along Biomedical Ontologies, supported as an Open Tender by H2020 OpenMinTeD
- 2015-2019 BioSYS PhD fellowship, 4-year PhD fellowship supported by FCT
- 2013 SPNET: In silico reconstruction of Streptococcus pneumoniae cellular networks and their impact on virulence, participated as post-graduate researcher

Awards

- 2020 FCiências.ID excellence award for PhD thesis in the Information and Communication Technologies research area

Skills

- Programming Python, Java, Bash, R, SQL
- Frameworks Docker, Git, spacy, NLTK, Tensorflow, Keras, Pytorch, Transformers
- Other skills Linux, Vim, Web development, \LaTeX

Languages

- Portuguese **Native**
- English **Fluent**

Other activities

- 2018-2021 Re-food: Food redistribution charity organization
Integration of new volunteers into one of the shifts and management of my own shift.
- 2018-2021 Choir singing
Bass singer in two choirs in the Lisbon area with diverse repertoire

Lisbon, Portugal

☎ +351 917 157 752 • ✉ andreamurias@gmail.com

🌐 www.lamurias.com • [linkedin/andrelamurias](https://www.linkedin.com/in/andrelamurias)

References

- Francisco Couto, Associate Professor, University of Lisbon, fcouto@di.fc.ul.pt, +341 217 500 253
- Luka Clarke, Research Associate, BioISI - Biosystems and Integrative Sciences Institute, lclarke@fc.ul.pt
- Afonso Mendes, Head of Research, Priberam, amm@priberam.pt

Lisbon, Portugal

 +351 917 157 752 •  andreamurias@gmail.com
 www.lamurias.com • [linkedin/andrelamurias](https://www.linkedin.com/company/andrelamurias)