

EDUCATION

- 2011-2015 | **Doctor of Philosophy (Ph.D.)** - Instituto Superior Técnico, University Lisbon.
“Large-Scale Semantic Relationship Extraction”
To achieve scalable relationship extraction, I proposed using an on-line classifier, based on the idea of nearest neighbor classification, and leveraging min-hash and locality sensitive hashing for efficient similarity search. To obtain training data, for the classifier, I proposed a bootstrapping technique relying on distributional word representations.
- 2007-2009 | **Master’s Degree (M.Sc.)** - Faculty of Sciences, University of Lisbon.
“Geographic Text Mining”
I developed an information extraction system based on Conditional Random Fields to generate geographic summaries. The summary lists the geographic entities found in a document and mapped into geographic concepts in a geographic ontology. The system was applied to a crawl of the Portuguese Web (25GB raw text) using a Hadoop cluster.
- 2003-2007 | **Bachelor of Science (B.Sc.)** - Faculty of Sciences, University Lisbon.
Informatics Engineering
- 2005-2006, Karlsruhe Universität (TH), Germany
- Erasmus exchange student for two semesters
- 2004 NOVEMBER - 2005 JULY - IT support (part-time) @ University of Lisbon
- Troubleshooting network connections and services, preventative maintenance, helping and educating new users.
- 2003 NOVEMBER - 2004 MARCH - SysAdmin (part-time) @ University of Lisbon
- Administration and configuration of networking software and services:
e.g., SAMBA, IMAP, Apache HTTP Server, IPTables, crontab scheduling, backups;

LANGUAGES

PORTUGUESE:	Spoken: <i>Native</i>	Written: <i>Native</i>	
ENGLISH:	Spoken: <i>Fluent</i>	Written: <i>Fluent</i>	
GERMAN:	Spoken: <i>Fluent</i>	Written: <i>Fair</i>	Certification: <i>Goethe-Zertifikat B.1</i>
SPANISH:	<i>Conversational</i>		

SELECTED PUBLICATIONS

Semi-Supervised Bootstrapping of Relationship Extractors with Distributional Semantics. David S Batista, Bruno Martins, and Mário J Silva. In *Empirical Methods in Natural Language Processing-EMNLP’15*. - **Honorable Mention for Best Short Paper**

A Minwise Hashing Method for Addressing Relationship Extraction from Text. David S Batista, Rui Silva, Bruno Martins, and Mário J Silva. In *Web Information Systems Engineering-WISE’13*.

Exploring DBpedia and Wikipedia for Portuguese Semantic Relationship Extraction David Soares Batista, David Forte, Rui Silva, Bruno Martins, and Mário J. Silva. *Linguamática*, 5(1), 2013.

Toponym Disambiguation using Ontology-based Semantic Similarity David S Batista, João D Ferreira, Francisco M Couto, and Mário J Silva. In *Computational Processing of the Portuguese Language 2012*.

A Statistical Study of the WPT05 Crawl of the Portuguese Web David Batista and Mário J. Silva. In *In FALA 2010 VI Jornadas en Tecnología del Habla and II Iberian SLTech Workshop* Universidade de Vigo, 2010.

Geographic Signatures for Semantic Retrieval David S Batista, Mário J Silva, Francisco M Couto, and Bibek Behera. In *Proceedings of the 6th Workshop on Geographic Information Retrieval* ACM, 2010.

Where in the Wikipedia is that answer? The XLDB at the GikiCLEF 2009 task. Nuno Cardoso, David Batista, Francisco J Lopez-Pellicer, and Mário J Silva. In *Multilingual Information Access Evaluation I. Text Retrieval Experiments*. Springer, 2010.