

# Luis Espinosa-Anke

Flat 23, Branksome House, Westgate Street  
CF10 1DF Cardiff  
Wales

☎ 07588 080371

✉ [espinosa-ankel@cardiff.ac.uk](mailto:espinosa-ankel@cardiff.ac.uk)

🌐 [www.luisespinoza.net](http://www.luisespinoza.net)

*The pen is mightier than the sword if the sword is very short, and the pen is very sharp. (Terry Pratchett)*

## Education

- 2013 - 2017 **PhD in Information and Communication Technologies**, *Specialization in NLP*, Universitat Pompeu Fabra, Barcelona.
- 2011 - 2013 **Erasmus Mundus MA - Natural Language Processing and Human Language Technology**, *University of Wolverhampton and Universitat Autònoma de Barcelona*, Wolverhampton (UK) and Barcelona (Spain).
- 2006 - 2008 **MA English and Spanish for Specific Purposes**, *University of Alicante*, Alicante (Spain).
- 2001 - 2006 **BA English Philology**, *University of Alicante*, Alicante (Spain).

## PhD thesis

- title *Knowledge Acquisition in the Information Age: The Interplay between Lexicography and Natural Language Processing*
- supervisor Horacio Saggion
- description We present and evaluate algorithms for different NLP and AI tasks, namely *definition extraction, hypernym detection and discovery, knowledge base construction, music recommendation, semantic similarity, lexical ontology learning and distributional semantics*. We use these algorithms to further extend, enrich and improve existing knowledge repositories, such as Wikidata, Wikipedia, WordNet or BabelNet.
- award date July 17th 2017

## Scholarships and Awards

- 2016 - AAI Travel Grant - Phoenix (Arizona)
- 2015 - European Network on e-Lexicography @ Sapienza University of Rome
- 2011 - "laCaixa" Foundation scholarship for Postgraduate Studies
- 2010 - Fulbright - Foreign Languages TA @ Lincoln University (Pennsylvania)
- 2008 - MA Placement @ University of Applied Sciences in Salzburg

## Languages

Spanish Native

*Mother Tongue*

English	Fluent
Catalan	Fluent
Norwegian	Average
German	Basic
Japanese	Basic

## Dissemination and Outreach (recent)

- 2019 Conference Organization - Semantic Deep Learning (SemDeep) V (IJCAI)
- 2018 Editorial - Semantic Web Journal Guest Editor
- 2018 Tutorial - The Interplay between Lexical Resources and NLP at NAACL 2018
- 2018 Shared Task Organization - Hypernym Discovery, SemEval 2018
- 2018 Shared Task Organization - Multilingual Emoji Prediction, SemEval 2018
- 2018 Conference Organization - Semantic Deep Learning (SemDeep) III (Coling 2018) and IV (ISWC)
- 2018 Conference Organization - Deep Learning for Knowledge Graphs and Semantic Technologies (DL4KGS), ESWC 2018
- 2017 Shared Task Organization - Open Knowledge Extraction Challenge, ESWC 2017
- 2016 Funding - 'Music Meets NLP', 20k€ project on NLP and Music Information Retrieval
- 2016 Tutorial - Natural Language Processing for MIR, ISMIR 2016, New York City

## Work Experience (recent)

- 2018 - Now Lecturer - Cardiff University
- 2018 Research Associate - Cardiff University - Research in vector space models for linguistic representations, embeddings and deep learning for NLP.
- 2015 - 2017 NLP Research Scientist - Savana Medica - Madrid, Spain - Development and evaluation of algorithms for automatic text understanding of electronic health reports for a Madrid-based company specialised in data-driven healthcare solutions.

## Publications

Yerai Doval, Jose Camacho-Collados, Luis Espinosa-Anke, and Steven Schockaert. Improving Cross-Lingual Word Embeddings by Meeting in the Middle. In *EMNLP*, 2018.

Francesco Barbieri, Luis Espinosa-Anke, Jose Camacho-Collados, Steven Schockaert, and Horacio Saggion. Interpretable Emoji Prediction via Label-Wise Attention LSTMs. In *EMNLP*, 2018.

Luis Espinosa-Anke and Steven Schockaert. SeVeN: Augmenting Word Embeddings with Unsupervised Relation Vectors. In *Coling*, 2018.

Luis Espinosa-Anke and Steven Schockaert. Neural architectures for definition extraction. In *NAACL*, 2018.

Ignacio Hernandez-Medrano, Jorge Tello-Guijarro, Cristobal Belda, Alberto Urřina, Ignacio Salcedo, Luis Espinosa-Anke, and Horacio Saggion. Savana: Re-using electronic health records with artificial intelligence. *International Journal of Interactive Multimedia and Artificial Intelligence*, 2017.

Luis Espinosa-Anke, Sergio Oramas, Horacio Saggion, and Xavier Serra. ELMDist: A vector space model with words and MusicBrainz entities. In *International Workshop on Semantic Deep Learning - best paper award*, 2017.

Francesco Barbieri, Luis Espinosa-Anke, Miguel Ballesteros, Juan Soler, and Horacio Saggion. Towards the understanding of gaming audiences by modeling Twitch emotes. In *International Workshop on Noisy User-generated Text at EMNLP 2017 - best paper award*, 2017.

Luis Espinosa-Anke, Jose Camacho-Collados, Claudio Delli Bovi, and Horacio Saggion. Supervised distributional hypernym discovery via domain adaptation. In *EMNLP*, pages 424–435, 2016.

Luis Espinosa-Anke, Jose Camacho-Collados, Sara Rodriguez-Fernandez, Horacio Saggion, and Leo Wanner. Extending WordNet with fine-grained collocational information via supervised distributional learning. In *COLING*, pages 3422–3432, 2016.

Sergio Oramas, Luis Espinosa-Anke, Xavier Serra, Horacio Saggion, and Mohamed Sordo. Information extraction for knowledge base construction in the music domain. *Journal of Data & Knowledge Engineering*, 2016.

Sara Rodriguez-Fernandez, Luis Espinosa-Anke, Roberto Carlini, and Leo Wanner. Semantics-driven collocation discovery. *Procesamiento del Lenguaje Natural*, 2016.

Luis Espinosa-Anke, Jorge Tello, Alberto Pardo, Ignacio Medrano, Alberto Ureņa, Ignacio Salcedo, and Horacio Saggion. Savana: Un entorno integral de extraccion de informacion y expansion de terminologas en el dominio de la medicina. *Procesamiento del Lenguaje Natural*, 2016.

Sergio Oramas, Luis Espinosa-Anke, Mohamed Sordo, Horacio Saggion, and Xavier Serra. Elmd: An automatically generated entity linking gold standard dataset in the music domain. In *Proceedings of the Tenth International Conference on Language Resources and Evaluation (LREC 2016)*, 2016.

Sara Rodriguez-Fernandez, Luis Espinosa-Anke, Roberto Carlini, and Leo Wanner. Semantics-driven recognition of collocations using word embeddings. In *Proceedings of ACL*, Berlin, Germany, 2016.

Sara Rodriguez-Fernandez, Roberto Carlini, Luis Espinosa-Anke, and Leo Wanner. Example-based acquisition of fine-grained collocation resources. In *Proceedings of LREC*, Portoroz, Slovenia, 2016.

Luis Espinosa-Anke, Roberto Carlini, Horacio Saggion, and Francesco Ronzano. Defext: A semi supervised definition extraction tool. In *Proceedings of GLOBALEX Workshop at LREC*, Portoroz, Slovenia, 2016.

Luis Espinosa-Anke, Horacio Saggion, Francesco Ronzano, and Roberto Navigli. ExTaSem! Extending, Taxonomizing and Semantifying Domain Terminologies. In *AAAI*, 2016.

Luis Espinosa-Anke, Horacio Saggion, and Francesco Ronzano. Taln-upf: Taxonomy learning exploiting crf-based hypernym extraction on encyclopedic definitions. In *Proceedings of the 9th International Workshop on Semantic Evaluation (SemEval 2015)*, 2015.

Luis Espinosa-Anke, Francesco Ronzano, and Horacio Saggion. Hypernym extraction: Combining machine-learning and dependency grammar. In *Computational Linguistics and Intelligent Text Processing*, pages 372–383. Springer, 2015.

Mohamed Sordo, Sergio Oramas, and Luis Espinosa-Anke. Extracting relations from unstructured text sources for music recommendation. In *Natural Language Processing and Information Systems*, 2015.

Sergio Oramas, Mohamed Sordo, and Luis Espinosa-Anke. A rule-based approach to extracting relations from music tidbits. In *2nd Workshop on Knowledge Extraction from Text, at WWW 2015*, pages 661–666. International World Wide Web Conferences Steering Committee, 2015.

Sergio Oramas, Mohamed Sordo, and Luis Espinosa-Anke. A semantic-based approach for artist similarity. In *Proceedings of the 16th International Society for Music Information Retrieval Conference*, 2015.

Claudio Delli Bovi, Luis Espinosa-Anke, and Roberto Navigli. Knowledge base unification via sense embeddings and disambiguation. In *EMNLP 2015*, 2015.

Luis Espinosa-Anke, Francesco Ronzano, and Horacio Saggion. Weakly supervised definition extraction. In *RANLP 2015*, 2015.

Luis Espinosa-Anke, Horacio Saggion, and Claudio Delli Bovi. Definition extraction using sense-based embeddings. In *International Workshop on Embeddings and Semantics, co-located with SEPLN 2015*, 2015.

Luis Espinosa-Anke and Horacio Saggion. Applying dependency relations to definition extraction. In *Natural Language Processing and Information Systems*, pages 63–74. Springer, 2014.

Luis Espinosa-Anke. Classifying different definitional styles for different users. *Procedia-Social and Behavioral Sciences*, 95:267–275, 2013.

Carla Pérez-Almendros, Luis Espinosa-Anke, and Rosa Torres-Valdés. Corporate social responsibility in the ibex 35: A corpus-based study of csr reports. *Procedia - Social and Behavioral Sciences*, 95:612–620, 2013.

Luis Espinosa-Anke. Towards definition extraction using conditional random fields. In *RANLP Student Workshop*, 2013.