

Elena Álvarez Mellado

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🎓 EDUCATION

MS Computational Linguistics, Brandeis University (GPA: 3.94/4.00) Graduating May 2020
Coursework: *Fundamentals of Computational Linguistics; Statistical & Neural Approaches to NLP; NLP in Python; Linguistic Annotation for Machine Learning; Advanced Programming Techniques; Data Structures & Algorithms.*

BA Linguistics, Universidad Complutense de Madrid 2008-2010
Visiting student at Université Paris-Diderot Paris 7 (France) in 2009.
Coursework: *Phonetics; Morphology; Syntax; Semantics; Pragmatics; Linguistic Typology; Intro to NLP in Prolog.*

Medical School, Universidad Complutense de Madrid 2005-2008
Three entire years completed. No degree awarded.
Coursework: *Anatomy; Physiology; Histology; Biochemistry; Pathology; Genetics; Pharmacology; Biostatistics.*

🔑 SKILLS

Programming skills: Python (NLTK, spaCy, sklearn, Keras), Java. **Also familiar with:** Prolog, Haskell, MySQL.
Languages: Spanish (native), English (fluent; TOEFL: 112; CPE: A), French (basic).

💼 WORK EXPERIENCE

Research Data Analyst at McLean Hospital (Massachusetts, USA) Jun 2019-Dec 2019
– Applied Machine Learning and NLP techniques to Electronic Health Records to predict readmission risk.

Research Assistant at UNED School of Computer Science (Madrid, Spain) Jun 2017-Jun 2018
– Developed and evaluated annotation guidelines for Named Entity Recognition on Spanish medieval documents.

Linguistic Data Analyst at Fundéu BBVA (Madrid, Spain) Dec 2014-Dec 2015
Conducted a corpus linguistics project on the evolution of the Spanish language on the 20th century media.
– Compiled corpus, analyzed textual data, wrote documentation, directed staff. See: <http://fundeu.es/aracne/>

Analytical Linguist at Molino de Ideas (Madrid, Spain) Oct 2010-Jan 2016
Provided linguistic expertise for NLP developments in Spanish:
– Annotated, evaluated and documented linguistic resources (morphological analyzers, lexical databases, corpora).
– Developed linguistic rules for language resources in Spanish (lemmatisation, POS-tagging).
– Designed and implemented in Prolog a set of rule-based morphological analyzers for Latin language.

Internship Student at Lingway-Eptica (Paris, France) Feb 2010-Jun 2010
– Annotated keywords for automatic CV matching.

📖 PUBLICATIONS

- **Álvarez Mellado, E.**; Holderness, E.; Miller N.; Dhang F., Cawkwell, P.; Bolton, K.; Pustejovsky, J.; Hall, M. (2019). *Assessing the Efficacy of Clinical Sentiment Analysis and Topic Extraction in Psychiatric Readmission Risk Prediction* to be presented at LOUHI workshop at EMNLP 2019. <http://tiny.cc/louhi> [Conference paper]
- **Álvarez Mellado, E.**; Martin-Fuertes, L. (2018). *Aracne: estudio de la variación lingüística en la prensa española entre 1914-2014* in Artnodes 22. <http://tiny.cc/aracne> [Peer-reviewed article]
- **Álvarez Mellado, E.** (2016). *Anatomía de la lengua*. Larousse. [Book]

🏠 PROJECTS

- Corpus analysis and visualizations of political speeches from 1937 to 2019 (2019) <http://tiny.cc/politicalcorpus>
- Named Entity Recognition of podcast transcripts (2019) <http://tiny.cc/ner4podcasts>
- Annotation and classification of a corpus of figurative tweets in Python (2019) <http://tiny.cc/figurative>
- Language detector in Prolog based on the syllable structure (es, it, fr, pt, ca, eu, la) (2009) <http://tiny.cc/azrael>

🗣️ OUTREACH & DISSEMINATION

- Editorial board member and columnist at popular Linguistics magazine *Archiletras* (2018-).
- Scientific committee member for *Maricorners* conference on LGBT language and communication (2018-).
- Language columnist for Spanish national newspaper *eldiario.es* (2017-) <http://tiny.cc/eldiario>
- Radio contributor at Spanish National Radio on weekly section about Linguistics (2012-2015).

☆ HONORS & AWARDS

- LaCaixa grant for graduate studies in the US. 40 Spanish students selected yearly (LaCaixa Foundation, 2018).
- National Journalism Award Miguel Delibes. Awarded to one person per year (Valladolid Press Association, 2017).
- First award at the Arquímedes National Contest for Young Researchers (Spanish Ministry of Science, 2009).