

CURRICULUM VITAE

PERSONAL INFO

Name: **Alberto Nogales Moyano**
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Phone Number: + 34 626922900
Place of birth: Málaga
25/08/1981

ACADEMICAL INFO

PhD in Computer Science at University of Alcalá. “A structural and quantitative analysis of the Web of Linked Data and its components to perform data retrieval.” **Suma Cum Laude.**

Master in Software Engineering and Artificial Intelligence.

Technical engineering in Computer Science specialized in Management.

COURSES

Various Coursera courses in the field of Data Science.

June 2012 – March 2013 Online course in HTML5 at Crystal eLearning (300 hours): HTML5, CSS3, JavaScript, CMS.

June 2009 – November 2009 Online course in advanced Java at Grupo Atrium: AJAX, Spring, Hibernate, Ibatis, JSF's, Oracle.

LECTURER

Degree courses (from January 2018): Artificial Intelligence II, Data Mining, Final Degree Projects at Universidad Francisco de Vitoria.

Seminar: The Web of Linked Data and its information (April 2017) at Technical University of Tallinn and Tallinn University.

Master course: Web Infrastructure (1st Semester 2016) at Alcalá University.

Course: iPython (December 2014) at Hackgricuiltute, a hackathon organised by Alcalá University.

Seminar: Information retrieval in Linked Data sources (December 2014) at Alcalá University.

Training school: iPython for data analysis (December 2014) at Alcalá University.

MOOC: Data science en agricultura (November 2014 – 3 months) at Canvas Network.
Metadatos para la descripción de recursos educativos (December 2015 – 3 months) at Canvas Network.

Seminar: Data science (November 2014) at Alcalá University.

RESEARCHER EXPERIENCE

Since November 2017 **PostDoctoral Researcher and Lecturer at Universidad Francisco de Vitoria.**

Project:

MamoEcoTermo: Cost-effective breast cancer screening using mammography, ultrasound and thermography with artificial intelligence techniques.

April 2017 – June 2017 **Visiting Lecturer and Researcher at Technical University of Tallinn.** Granted with funding of **DORA** scholarships.

Project:

AutonoMAS buses: Development of a MultiAgents System based on ontologies, able to understand the Traffic Act of Estonia.

May 2013 – July 2018 **Ph.D. Candidate, Researcher, and Lecturer at Alcalá University.** My responsibilities consist of developing tools, writing technical documentation, reviewing and writing papers, organizing meetings, lecturer at MOOCs and seminars, or helping interns.

Projects:

agINFRA: The aim of the Networking Activities from the agINFRA project is to foster a culture of cooperation between the agricultural scientific communities benefiting from research infrastructures and help develop a more efficient and attractive European Research Area.

SemaGrow: SemaGrow envisages developing the scalable, efficient, and robust data services needed to take full advantage of the data-intensive and interdisciplinary Science of 2020 and to reshape the way that data analysis techniques are applied to the heterogeneous data cloud.

CVN2Cerif: a conversion tool from the Spanish CVN (Curriculum Vitae Normalizado) format to EuroCRIS' CERIF standard and vice versa.

Cerif2VIVO: a conversion tool from EuroCRIS' CERIF standard format to VIVO.

Mailtrack: optimization of mail deliveries applying machine-learning techniques.

October 2012 – April 2013 **Researcher at Málaga University.**

Project:

Atenea (HAR2009-07068): Thesauri for Art History

January 2012 – September 2012 **Researcher at Málaga University**

Project:

BIOLEDGE (8.06.UE/47.7030): Data mining techniques for protein production

July 2011 – December 2011 **Researcher at Technische Universität Wien.**

Project:

Master Thesis: “Solving **Multi-objective problems** with **Semantic Web metaheuristics**”

EXPERIENCE AT COMPANIES

- May 2010 – September 2010 **Jr Developer at e-gim.**
Project:
Trámites online (Council consulting); Java, JavaScript, JQuery, SQL, Tomcat.
- January 2010 – April 2010 **Jr Developer (Own project).**
Project:
Abaconline (Mathematics online academy); Java, JavaScript, JQuery, SQL, Tomcat.
- October 2009 – December 2009 **Jr Developer at Mr Houston.**
Project:
Keycapital (Financial web-application); Java, JavaScript, JQuery, SQL, Tomcat.
- December 2008 – September 2009 **Jr Developer.**
Project:
Subasnet (Online auction house); Java, SQL, Tomcat.
- October 2007 - November 2008 **Jr Developer at ICNET Consulting.**
Projects:
Vodafone (BRM and Prever); Java, SQL, Weblogic.
Orange (Preimpresos); Java, HTML, Tomcat.
ICNET (Allocation of time); Java, JavaScript, SQL, Tomcat.
- January 2007 - September 2007 **Internship at IBM. Database analyst and Java developer.**
Project:
Endesa (Invoicing inventory); Java, Tomcat.
- November 2006 - December 2007 **Methodology supervisor for Telefónica Móviles España projects at IT Deusto.**

LANGUAGES

- English:** Spoken and written high level

December 2011: C1 certificate by Malaga University

September 1996 and 1997: Exchange at St Gerard (Bray CO.Dublín)

1988 - 1998: Sheyla Language School in Málaga
- German:** January 2017: A2 certificate by Goethe Institut

JOURNAL PUBLICATIONS

1. **Nogales, A. et al.** A semiautomatic method for obtaining a predictive deep learning model and a rule-based system for abdominal aortic aneurysms. **Journal of Intelligent Information Systems.** Journal indexed in ‘**Journal Citation Reports**’

- (Thomson Reuters), **Impact Factor (2022): 2.50 (Q3 in ‘Computer Science, Artificial Intelligence’)**
2. Maitín, A., **Nogales, A.**, García-Tejedor, Á.J. EEGraph: An open-source Python library for modeling electroencephalograms using graphs *Neurocomputing Journal*. **Journal indexed in ‘Journal Citation Reports’ (Thomson Reuters), Impact Factor (2022): 5.77 (Q2 in ‘Computer Science, Artificial Intelligence’)**
 3. **Nogales, A.**, Mora-Cantalops, M., Díaz-Morón, R. and García-Tejedor, A.J. (2023). Network Analysis for Food Safety: Quantitative and Structural Study of Data Gathered through the RASFF System in the European Union. *Food Control Journal*. **Journal indexed in ‘Journal Citation Reports’ (Thomson Reuters), Impact Factor (2022): 5.48 (Q1 in ‘Biotechnology’)**
 4. **Nogales, A.**, García-Tejedor, Á.J., Maitín, A. M., Pérez-Morales, A., Del Castillo, M.D. and Romero, J.P. (2022). BERT learns from electroencephalograms about Parkinson’s Disease: Transformer-based models for aid diagnosis. *IEEE Access*. **Journal indexed in ‘Journal Citation Reports’ (Thomson Reuters), Impact Factor (2022): 3.47 (Q2 in ‘Computer Science, Information Systems’)**
 5. García-Tejedor, Á. J. & **Nogales, A.** (2022). An open-source Python library for self-organizing-maps. *Software Impacts*. **Journal indexed in ‘Scopus’.**
 6. **Nogales, A.**, Morón, R. D., & García-Tejedor, Á. J. (2022). A comparison of neural and non-neural machine learning models for food safety risk prediction with European Union RASFF data. *Food Control*, 108697. **Journal indexed in ‘Journal Citation Reports’ (Thomson Reuters), Impact Factor (2022): 5.48 (Q1 in ‘Biotechnology’)**
 7. **Nogales, A.**, Sicilia, M. A., & García-Tejedor, Á. J. (2021). A domain categorisation of vocabularies based on a deep learning classifier. *Journal of Information Science*, 01655515211018170. **Journal indexed in ‘Journal Citation Reports’ (Thomson Reuters), Impact Factor (2020): 3.28 (Q2 in ‘Computer Science, Information Systems’)**
 8. **Nogales, A.**, Delgado, E., Melchor, Á., & Garcia-Tejedor, Á. (2021). ARQGAN: an evaluation of generative adversarial network approaches for automatic virtual inpainting restoration of Greek temples. *Expert Systems with Applications Journal*. **Journal indexed in ‘Journal Citation Reports’ (Thomson Reuters), Impact Factor (2020): 5.44 (Q1 in ‘Computer Science, Artificial Intelligence’)**
 9. **Nogales, A.**, García-Tejedor, Á., Monge, D., Serrano Vara, J. & Antón, C. (2020). A survey of deep learning models in medical therapeutic areas. *Artificial Intelligence in Medicine Journal*. **Journal indexed in ‘Journal Citation Reports’ (Thomson Reuters), Impact Factor (2020): 4.38 (Q1 in ‘Computer Science, Artificial Intelligence’)**
 10. Garcia, E.M., **Nogales, A.**, Morales, J., & Garcia-Tejedor, Á. (2020). A light method for data generation: a combination of Markov Chains and Word Embeddings. *Proces. del Leng. Natural*, 64, 85-92. **Journal indexed in ‘Journal Citation Indicator’.**

11. **Nogales, A., Sicilia, M. A., & Barriocanal, E. G. (2018).** On the Graph Structure of the Web of Data. *International Journal on Semantic Web and Information Systems (IJSWIS)*, 14(2), 70-85. doi:10.4018/IJSWIS.2018040104 **Journal indexed in ‘Journal Citation Reports’ (Thomson Reuters), Impact Factor (2018): 0.79 (Q2 in ‘Information Systems’)**
12. **Nogales, A., Sicilia-Urban, MA. & García-Barriocanal, E.** Measuring vocabulary use in the Linked Data Cloud. *Online Information Review* 41 (2). (2017/04/10). **Journal indexed in ‘Journal Citation Reports’ (Thomson Reuters), Impact Factor (2017): 1.53 (Q2 in ‘Computer Science Applications’)**
13. **Nogales, A., Sicilia, MA., Sánchez-Alonso, S. & Garcia-Barriocanal, E.** Linking from Schema.org microdata to the Web of Linked Data: An empirical assessment. *Computer Standards & Interfaces* 45, 90-99. (2016/03/31). **Journal indexed in ‘Journal Citation Reports’ (Thomson Reuters), Impact Factor (2016): 1.63 (Q2 in ‘Software’)**

CONFERENCES

1. **Nogales, A., Pérez-Lara, F., Morales, J., & García-Tejedor, Á. J. (2022).** How do thermography colors influence breast cancer diagnosis? A hybrid model of convolutional networks with a weighted average algorithm. In *Intelligent Systems Conference 2022*.
2. **Nogales, A., García-Tejedor, Á. J., Sanz, N. M., & de Dios Alija, T. (2019, June).** Competencies in Higher Education: A Feature Analysis with Self-Organizing Maps. In *International Workshop on Self-Organizing Maps* (pp. 80-89). Springer, Cham.
3. **Nogales, A., Täks, E., & Taveter, K. (2018, September).** Ontology Modeling of the Estonian Traffic Act for Self-driving Buses. In *Annual International Symposium on Information Management and Big Data* (pp. 249-256). Springer, Cham.
4. **Nogales, A., Sicilia, MA. & Jörg, B. (2014).** Combining VIVO and Google Scholar data as sources for CERIF Linked Data: a case in the agricultural domain. *Procedia Computer Science* 33, 266-271.
5. **Ruiz, J., Sicilia, MA & Nogales, A.** Uso de temperaturas históricas para predecir posibles incidencias de plagas en una localización. **XI Congreso SEAE. (2014)**
6. **Nogales, A., Sicilia, MA., García-Barriocanal, E. & Sánchez-Alonso, S.** Exploring the potential for mapping Schema. org microdata and the Web of Linked Data. *Research Conference on Metadata and Semantic Research*, 266-276. (2013/11/19)

AWARDS AND RECOGNITIONS

Patent application award by Universidad Francisco de Vitoria: ARQGAN project, April 2022.

Artificial Intelligence Summit by AMETIC: ARQGAN project, April 2022.