

# Antonio F. García Sevilla



Engineer and Computational Linguist

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## Academic Background

- 2016– **PhD program in Computer Science**, *Facultad de Informática*, Universidad Complutense de Madrid.
- 2017–2020 **Master in Teaching in Secondary Education, Vocational Training and Language Centers**, *Facultad de Educación*, Universidad Nacional de Educación a Distancia.
- 2013–2016 **Master in Human Language Science and Technology**, *Faculty of Information and Communication Technology*, University of Malta, Language and Communication Technologies European Master Program (*with distinction*).
- 2013–2016 **Master in Computer Science, Mathematical linguistics branch**, *Matematicko-Fyzikální Fakulta*, Univerzita Karlova v Praze (Charles University in Prague), Language and Communication Technologies European Master Program (*Summa Cum Laude*).
- 2008–2013 **Major in Mathematics**, *Departamento de Matemáticas, Facultad de Ciencias*, Universidad Autónoma de Madrid.
- 2008–2013 **Major in Computer Engineering**, *Escuela Politécnica Superior*, Universidad Autónoma de Madrid.

## Previous Experience

- 2022 **Researcher & Developer**, “SSL Signary: A parametric dictionary of Spanish Sign Language”, *Facultad de Filología*, Universidad Complutense.
- 2020–2021 **Principal Investigator**, “Project VisSE: Visualizing SignWriting”, *Facultad de Informática*, Universidad Complutense. <https://www.ucm.es/visse>
- 2018–2019 **Researcher & Developer**, “IDiLyCo: Digital Inclusion, Language and Communication”, NiL (Natural Interaction based on Language), *Facultad de Informática*, UCM.
- 2018– **Teaching at UCM**, *co-direction of bachelor theses, server administration, lecturing*. *Facultad de Informática*, UCM.
- 2017 **Researcher & Developer**, “HiSi (Historiales Similares): Methods for finding similar medical histories”, NiL (Natural Interaction based on Language), *Facultad de Informática*, UCM.
- 2017 **Researcher & Developer**, “Development of prototype chatbot application for the medical domain”, Medwhat & *Facultad de Informática*, UCM. <http://medwhat.com/>
- 2017 **Software Developer** *Speexx - Digital Publishing* Full-stack development of language training applications. <https://www.speexx.com/home/>
- 2016 **Researcher & Developer**, “ConCreTe: Concept Creation Technology”, NiL (Natural Interaction based on Language), *Facultad de Informática*, UCM.
- 2011–2012 **Internship at I.I.C.**, *Analysis of alternative database systems for a pattern recognition application*, Knowledge Engineering Institute, UAM.
- 2010 **Technical realization of educative innovation project**, *Material and methods for the virtual teaching of General Palaeontology*, Universidad Complutense de Madrid.

## Languages


**Spanish** – Native.

**English** – Fluent (C2), *University of Cambridge*, Certificate of Proficiency in English Grade A.


**Spanish Sign Language** – Advanced (C2), *Idiomas Complutense*.

**Japanese** – Intermediate (B1-B2), *Nōken N3*.

## Scientific Publications

- 2022 **A.F.G. Sevilla, A. Díaz Esteban and J. M. Lahoz-Bengoechea**, “Quevedo: Annotation and Processing of Graphical Languages”, in *Proceedings of the Language Resources and Evaluation Conference (LREC 2022)*“. [Portfolio](#) 
- 2020 **A.F.G. Sevilla, A. Díaz Esteban and J. M. Lahoz-Bengoechea**, “Tools for the use of SignWriting as a Language Resource”, in *Proceedings of the 9th Workshop on the Representation and Processing of Sign Languages*, pp. 203-208.
- 2019 **A.F.G. Sevilla and J. M. Lahoz-Bengoechea**, “A different description of orientation in sign languages”, in *Procesamiento del Lenguaje Natural*, volume 62, pp. 53-60.
- 2016 **A.F.G. Sevilla, A. Fernández-Isabel, and A. Díaz**, “Grafeno: Semantic Graph Extraction and Operation”, in *The International Conference on Digital Information Management (ICDIM 2016)*, pp. 139-144.

## Tech Stack

**Data Science:** Python, R, Machine Learning, Neural Networks, CUDA, DVC, OpenCV. [Portfolio](#) 

**NLP:** spaCy, BeautifulSoup, Sentiment Analysis, Full Text Search.

**Devops:** GNU/Linux, Git, Nginx, SSL, SMTP/IMAP, Containers.

**Frontend:** HTML5, CSS3 (Less, Tailwind), Javascript (React, Next), Electron.

**Backend:** Node, REST, SQL (Sqlite, Postgres).

**Design:** Latex, Markdown, Pandoc, GIMP, SVG, 3D (Blender, Three.js).

**Other languages:** C/C++, Java, Rust, Lua.

## Others

- 2021 **PhDay**: First award (PhD research presentation competition), *Facultad de Informática, UCM*.
- 2017– **Nōken** (日本語能力試験): Organization of the official Japanese language exam in Madrid: aid and supervisor.
- 2014 **Programme Representative** for the European Masters Program in Language and Communication Technologies.
- 2013 **European Union grant** for master studies, Language and Communication Technologies European Master Program.
- 2010–2013 **Club de Informática** (Computer Student Association): member, secretary, president.
- 2009–2012 Organization and delivery of talks and workshops on computer science, Linux Install Party, *Escuela Politécnica Superior, UAM*.
- 2009 **Grant for Academic Excellence** from the Comunidad Autónoma de Madrid: Design of digital circuits with FPGA and teaching aid for Computer Science, *Universidad Autónoma de Madrid*.