

# Andrea Morales Garzón

EDUCATION	<b>Ph.D. Student in Data Science</b> University of Granada, Granada, España	December 2021 - Current
	<b>Master Degree in Data Science</b> <b>Academic record: 9.51/10</b> University of Granada, Granada, España	October 2020 - January 2022
	<b>Master Degree in Computer Engineering</b> <b>Academic record: 9.58/10</b> (graduated with honors) University of Granada, Granada, España	October 2018 - June 2020
	<b>Bachelor Degree in Computer Engineering</b> Specialization in Computer Science and Intelligent Systems <b>Academic record: 8.39/10</b> University of Granada, Granada, España	September 2014 - June 2018
	<b>Award for the best academic record at the MSc Degree in Computer Engineering, E.T.S. de Ingenierías Informática y de Telecomunicación, Academic course: 2019-2020.</b> <b>Award for the best master thesis at the MSc Degree in Computer Engineering, E.T.S. de Ingenierías Informática y de Telecomunicación, Academic course: 2019-2020.</b>	
AWARDS	<b>Predoctoral fellow in Computer Science at University of Granada</b> Institution: University of Granada	February 2022 - Current
	<b>Visiting Scholar at Laboratoire Hubert Curien</b> Jean-Monet University (France)	June 2022 - September 2022
EXPERIENCE	<ul style="list-style-type: none"><li>- Visiting Scholar at Laboratoire Hubert Curien, Jean-Monet University (France).</li><li>- Research state granted by the ARQUS Alliance in a competitive basis.</li><li>- Supervisor: Amaury Habrard (website:<a href="https://perso.univ-st-etienne.fr/habrarda/">https://perso.univ-st-etienne.fr/habrarda/</a>).</li></ul>	
	<b>Research Assistant at the Promotion and Assessment unit of the International Projects Office of the University of Granada</b> Institution: University of Granada, Vice-rectorate of Research and Transfer	September 2021 - January 2022
	<b>H2020 European project Stance4Health, grant agreement No. 816303</b> Institution: University of Granada	February 2019 - August 2021
	<ul style="list-style-type: none"><li>- Project name: Stance4Health: Smart Technologies for personalised Nutrition and Consumer Engagement (more info: <a href="https://www.stance4health.com">https://www.stance4health.com</a>)</li><li>- Development of an intelligent specialized nutrition service to optimize microbiota activity and long-term consumer adherence.</li><li>- Unification and standardization of European Food Composition Databases and commercial products into a single standardized one.</li><li>- Lectures and talks associated with the project.</li></ul>	
	<b>DESINFOSCAN</b> Institution: University of Granada	December 2022 - November 2024
PARTICIPATION IN RESEARCH PROJECTS	<ul style="list-style-type: none"><li>- Project name: DESINFOSCAN: Desinformation monitoring and its social impact using Artificial Intelligence: application to civil security.</li><li>- Role: Work team</li></ul>	
	<b>FEDERAMED</b> Institution: University of Granada	September 2022 - August 2025
	<ul style="list-style-type: none"><li>- Project name: FEDERAMED: Flexible federated learning with heterogeneous sources for the preservation of the security and data privacy: Health applications</li><li>- Role: Work team</li></ul>	

## **BIGDATAMED**

*Institution: University of Granada*

*January 2020 - March 2023*

- Project name: BIGDATAMED: Data analysis in health care: from medical records to Big Data
- Role: Work team

## **H2020 European project Stance4Health, grant agreement No. 816303**

*Institution: University of Granada*

*February 2019 - August 2021*

- Project name: Stance4Health: Smart Technologies for personalised Nutrition and Consumer Engagement (more info: <https://www.stance4health.com>)
- Role: hired machine learning researcher

### GRANTS

#### **Doctoral Fellowship**

*Financing organization: Department of Economic Transformation, Industry, Knowledge and Universities of the Junta de Andalucía*

*February 2022 - February 2026*

- Advisor: M.J. Martín-Bautista
- Institution: University of Granada
- Department: Computer Science and Artificial Intelligence

#### **Research initiation fellowship for Ms Students of the University of Granada**

*Financing organization: University of Granada*

*September 2019 - December 2021*

- Goal: Introduction to research through the elaboration of research papers and their publication, for Master students of the University of Granada
- Institution: University of Granada
- Department: Computer Science and Artificial Intelligence

### LANGUAGES

#### **English Language Certificate — Level: C1,**

*September, 2020*

*Certificate Advanced English, issued by Cambridge Assessment*

#### **English Language Certificate — Level: B2,**

*December, 2014*

*Certificate Intermediate English, issued by Cambridge Assessment*

#### **English Language Certificate — Level: B1,**

*June, 2012*

*Certificate Preliminary English, issued by Cambridge Assessment*

### COURSES

#### **Crash course - Seminar on Language technologies: Deep Learning**

*1-3, June 2020*

*San Sebastián - (Online), Institution: Vasque Country University (UPV/EHU), Spain*

#### **Course - Project Management — Certificate in Project Management**

*23, May 2021*

*Online, Institution: Sara Ulla Díez, Instructores, issued by Udemy*

#### **Course - Research Project Writing step by step**

*24, May 2021*

*Online, Institution: Agile Lee & Ureducation, Instructores, issued by Udemy*

#### **Course - Ionic 5: IOS, Android y PWAs app development, Angular**

*15, March 2020*

*Online, Institution: Fernando Herrera, Instructores, issued by Udemy*

#### **English course en Brighton (UK), St Giles International, Upper Intermediate Level**

### JOURNALS

**Morales-Garzón, Andrea, Gutiérrez-Batista, Karel, Martín-Bautista, María J.** Link prediction in food heterogeneous graphs for personalised recipe recommendation based on user interactions and dietary restrictions. *Computing*, 9, submitted: 27 feb. 2023, current state: under review.

**Morales-Garzón, Andrea, Gómez-Romero, Juan, Martín-Bautista, María J.** (2021). A Word Embedding-Based Method for Unsupervised Adaptation of Cooking Recipes. *IEEE Access (Q1)*, 9, 27389-27404, DOI: 10.1109/ACCESS.2021.3058559

### CONFERENCES

**Morales-Garzón, Andrea, Gracia M. Sánchez-Pérez, Juan Carlos Sierra, Martín-Bautista, María J.** The promise of Query Answering systems in Sexuality: current state, challenges and limitations. Current state: accepted for the FQAS 2023 Conference.

**Morales-Garzón, Andrea, Karel Gutiérrez-Batista, Roberto Morcillo-Jiménez, Martín-Bautista, María J.** How tasty is this dish? Studying user-recipe interactions with a rating prediction algo-

rithm and Graph Neural Networks. Current state: accepted for the FQAS 2023 Conference.

**Morales-Garzón, Andrea, Gómez-Romero, Juan, Martín-Bautista, María J.** (2021, April). Semantic-aware transformation of short texts using word embeddings: An application in the Food Computing domain. In *Proceedings of the 16th Conference of the European Chapter of the Association for Computational Linguistics: Student Research Workshop* (pp. 148-154).

**Morales-Garzón, Andrea, Gómez-Romero, Juan, Martín-Bautista, María J.** (2020, June). A word embedding model for mapping food composition databases using fuzzy logic. In *International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems* (pp. 635-647). Springer, Cham.

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RELEVANT  
TALKS

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**Science, Technology, Engineering and Mathematics (STEM) Multidisciplinary Conference for scientific dissemination,** 14 February 2023

Title: *Deep learning and text processing in the nutrition field: An application for automatic adaptation of cooking recipes*, Institution: University Pablo de Olavide (Sevilla), Spain

**Oral talk at the first edition of PyData Granada,** 1 February 2023

Title: *How to process textual data? Introduction to neural network-based models.*, Institution: PyData Granada local group.

**Python Conference in Spain (PyConES 2022),** 30 September 2022

Title: *My first application with PyTorch*, Institution: Python Programming Spanish Association. Held at University of Granada.

**European Researchers Night 2022 (fairs and exhibitions),** 30 September 2022

Title: *How does an artificial intelligence-based system work?*. Institution: University of Granada.

**European Researchers Night 2022 (fairs and exhibitions),** 30 September 2022

Title: *The wisdom of crowds: Are many people smarter than one expert?*, Institution: University of Granada.

**Oral speaker at the I Forum for Research Equality Generation at the University of Granada,** 9 February 2022

Title: *Predicting Learning in the Nutrition field*, Institution: University of Granada

**Speaker at the Python Conference 2021 in Spain - (PyConES),** 2-3 October 2021

Hosted online, Title: *Introduction to bio-inspired algorithms with Python*, Institution: Spanish Python Society

**Speaker at the Python Conference 2020 in Spain - (PyConES),** 3 y 4, October 2020

Hosted online, Title: *EDA and NLP basics: Exploring the innards of the Spanish poetry*, Institution: Spanish Python Society

**Poster presentation at I Conference on Epidemiology and Public Health: Researching in times of crisis,** 18, December 2020

Hosted online, Title: *Comparison of a weekly menu with different European food databases in the framework of the H2020 Stance4Health Project*, Institution: Institute of Biosanitary Research Granada

**Co-author of oral talk at III Conference of Food, Nutrition and Dietetics. Combining community and personalized nutrition: new challenges.**

Hosted online, 23-27, November 2020

Title: *Development and evaluation of a nutritional database of traditional recipes from different european countries involved in the Stance4Health Project*

**Oral talk in the H2020 Stance4Health Annual Meeting,** 10, September 2019

Valencia, España, Organization: Horizon 2020 project Stance4Health, with Grant Agreement No. 816303

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