

Andrea Morales Garzón

EDUCATION	Ph.D. Student in Data Science University of Granada, Granada, España	<i>December 2021 - Current</i>
	Master Degree in Data Science Academic record: 9.51/10 University of Granada, Granada, España	<i>October 2020 - January 2022</i>
	Master Degree in Computer Engineering Academic record: 9.58/10 (graduated with honors) University of Granada, Granada, España	<i>October 2018 - June 2020</i>
	Bachelor Degree in Computer Engineering Specialization in Computer Science and Intelligent Systems Academic record: 8.39/10 University of Granada, Granada, España	<i>September 2014 - June 2018</i>

AWARDS	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.
	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.

RESEARCH INTERESTS	Natural Language Processing • Machine Learning • Heterogeneous Graph Neural Networks • Domain Adaptation • Event Detection • Multi-modal learning
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EXPERIENCE	Predocctoral fellow in Computer Science at University of Granada Institution: University of Granada	<i>February 2022 - Current</i>
	Visiting Scholar at Laboratoire Hubert Curien Jean-Monet University (France)	<i>June 2022 - September 2022</i> <ul style="list-style-type: none">- Visiting Scholar at Laboratoire Hubert Curien, Jean-Monet University (France).- Research state granted by the ARQUS Alliance in a competitive basis.- Supervisor: Amaury Habrard (website:https://perso.univ-st-etienne.fr/habrarda/).
	Research Assistant at the Promotion and Assessment unit of the International Projects Office of the University of Granada Institution: University of Granada, Vice-rectorate of Research and Transfer	<i>September 2021 - January 2022</i>

PARTICIPATION IN RESEARCH PROJECTS	H2020 European project Stance4Health, grant agreement No. 816303 Institution: University of Granada	<i>February 2019 - August 2021</i> <ul style="list-style-type: none">- Project name: Stance4Health: Smart Technologies for personalised Nutrition and Consumer Engagement (more info: https://www.stance4health.com)- Development of an intelligent specialized nutrition service to optimize microbiota activity and long-term consumer adherence.- Unification and standardization of European Food Composition Databases and commercial products into a single standardized one.- Lectures and talks associated with the project.
	DESINFOSCAN Institution: University of Granada	<i>December 2022 - November 2024</i> <ul style="list-style-type: none">- Project name: DESINFOSCAN: Desinformation monitoring and its social impact using Artificial Intelligence: application to civil security.- Role: Work team
	FEDERAMED Institution: University of Granada	<i>September 2022 - August 2025</i>

- Project name: FEDERAMED: Flexible federated learning with heterogeneous sources for the preservation of the security and data privacy: Health applications
- Role: Work team

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,

Certificate Advanced English, issued by Cambridge Assessment

September, 2020

English Language Certificate — Level: B2,

Certificate Intermediate English, issued by Cambridge Assessment

December, 2014

English Language Certificate — Level: B1,

Certificate Preliminary English, issued by Cambridge Assessment

June, 2012

COURSES

Crash course - Seminar on Language technologies: Deep Learning

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

1-3, June 2020

Course - Project Management — Certificate in Project Management

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

23, May 2021

Course - Research Project Writing step by step

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

24, May 2021

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

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

15, March 2020

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, Martin-Bautista, Maria J. How tasty is this dish? Studying user-recipe interactions with a rating prediction algorithm and Graph Neural Networks. Current state: accepted for the FQAS 2023 Conference.

Morales-Garzón, Andrea, Gómez-Romero, Juan, Martin-Bautista, Maria 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, Martin-Bautista, Maria 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.

RELEVANT
TALKS

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
