

# Gloria del Valle Cano

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## EDUCATION

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### MSc Data Science

June 2022

*Autonomous University of Madrid*

- Studying advanced methods in Statistics, Processing of Temporary Information and Stochastic Processes, inter alia.
- Attending to elective courses such as Natural Language Processing, Deep Learning for Image and Video Classification, Bayesian Methods and Functional Methods in Machine Learning.

### BSc Computer Science Engineering

July 2021

*Autonomous University of Madrid*

- Studying solutions based on AI, computer security, systems administration and Big Data.
- Working in part-time jobs as sales assistant.

## EXPERIENCE

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### Research Assistant

January 2022 – Present

*Autonomous University of Madrid · OBERAXE (State Secretariat for Migration)*

*Madrid, Spain*

- Part of [REAL-UP, Combating Hate Speech Project](#) approved by the Citizens, Equality, Rights and Values Programme (CERV) of the European Commission under the Call: CERV-2021-EQUAL.
- Design and implementation of the main hate speech algorithm for the improvement of an IT tool developed for the Spanish Government under the supervision of my mentor, Lara Quijano-Sánchez.
- Creation of automatic processes for detecting hate speech beyond Twitter.

### R&D Tax Consultant Intern

October 2019 – March 2020

*KPMG Spain*

*Madrid, Spain*

- Drafting scientific and technological descriptions of AI projects.
- Automatizing spreadsheets for the value of claims, apportioned between the different R&D regimes.
- Explored ways to analyse and present relevant financial information to support R&D tax credit claims.

## PROJECTS

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### SocialHaterBERT · Bachelor's Thesis

June 2021

- Main title of *Detecting hate speech messages on Twitter: a study based on social network profiles*.
- Conducted in cooperation with the Spanish National Office Against Hate Crimes of the Spanish State Secretariat for Security (Ministry of Interior).
- Proposal for a novel NLP approach for feature analysis based on user profiles, related social environment and generated tweets.
- Development of a combined BERT-based model capable of analyzing features beyond those intrinsically lie in the text for the detection of hate speech on Twitter.

## COURSES AND CERTIFICATES

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**Reinforcement Learning Specialization (1/4)** · *University of Alberta*

July 2022

**IBM Data Science Professional Certificate (3/10)** · *IBM*

July 2021

**Python for Data Science** · *Coursera Project Network*

July 2020

**Natural Language Processing** · *National Research University Higher School of Economics*

August 2019

**Applied Text Mining in Python** · *University of Michigan*

June 2019

## PUBLICATIONS

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### Articles in conference proceedings

- del Valle, G. & Quijano-Sánchez, L.& Gómez, J., *Detecting Hate Messages on Twitter: A BERT-based Model for the Classification of Hate Speech in Spanish*, in Proceedings of International Congress "Hate and Discrimination in turbulent times", 2021, Málaga, Spain.

## AWARDS AND ACHIEVEMENTS

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### Finalist at European Crime Prevention Award and Best Practice Conference (**BPC-ECPA**) October 2021

- Entry: [SocialHaterBERT: automatic detection and monitoring of hate speech on Twitter through a dichotomous approach based on textual analysis and user profiles](#).
- Winner of the internal selection process in Spain.

## LANGUAGES

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**English:** Advanced    **Spanish:** Native    **French:** Elementary

## TECHNICAL SKILLS

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**Advanced knowledge:** Python, C,  $\text{\LaTeX}$ , SQL, Neo4j, NLP Transformers.

**Intermediate knowledge:** C++, R, Lisp, Java, Swift, HTML/CSS, JavaScript, MongoDB.