

## ANGELA CASTILLO-GILL

### Data Scientist

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I love data. I love collecting data on myself, my partner, the job I have, the industry I work in, the country I live in, and everything really. Better than collecting data is **analysing** it and making informative **visualisations**. Nothing like that face of awe when you reveal what all those rows of data look like - and what does it have to do with other variables? And if you can build a **model** to fit the data you're interested in?

We all want to save time, space, reduce waste, and we want to earn more, increase brand sales and profit. That's why I'm passionate about **machine learning** and **data science** - it allows us to overcome human biases and make better decisions. My degree in industrial engineering has given me the skills to use new techniques in the field of marketing, consumer research, predictive analytics, operations research, and accounting metrics. Since new tools and techniques are constantly appearing, to stay up to date, every month I receive a different data-related online certification.

### DATA SCIENCE SKILLSET

Languages	Machine learning	Data Viz tools	Libraries	Statistics	Character traits
-R	-Linear regression	-Excel	-Dplyr	-Linear algebra	-Nurate
-SQL	-Logistic regression	-Google Charts	-DataTable	-Multivariate calculus	-Eye for detail
-Python	-PCA	-GGplot2	-mlr	-Probability	-Team player
-Microsoft Excel	-Clustering	-Tableau	-Caret	distributions	-Quick learner
	-CART		-Gbm	-Hypothesis testing	-Strong communicator
	-Random Forests		-XGBoost	-Time series analysis	
	-k-NN		-pandas	-Forecasting	
			-seaborn	-A/B testing	

### PROFESSIONAL EXPERIENCE

#### UNIVERSITAT AUTÒNOMA DE BARCELONA

Mar 2017 - Present

##### Barcelona, Spain

Data Scientist | Researcher

- Models built and submitted to peer-reviewed publication on 27/11/18 to *Ecological Economics*: two multiple linear regression (MLR) and one time series forecast.
  - MLR: One to predict property sales prices and the other to predict number of trees according to spatial location.
  - Time series forecast: To predict the number of invasive species detected in the Iberian Peninsula.
- Performed end-to-end data analysis which involved database design, data cleaning, visualisation, and report writing to communicate findings to non-technical colleagues.
- Built a spatial-temporal model to simulate an international policy and inform local policy makers.
- Proposed and fostered collaboration with the data science team of one of the biggest online real-estate companies in Spain, Idealista SA in order to use their data for research.
- Collaborated with non-technical colleagues including government stakeholders to create an ethical and well-informed model.
- Communicated data insights at several international public-speaking engagements to promote the research institute.

#### INFORMA AGRIBUSINESS INTELLIGENCE

Apr 2016 – Mar 2017

##### London, United Kingdom

Data Analysis Consultant

- Built time series visualisations to show the trend in commodities of interest.
- Performed end-to-end data analysis which involved database design, data cleaning, visualisation, and report writing on the subjects:

1. Quinoa Markets 2016 – Trends and Opportunities
2. Colombian Agribusiness after FARC peace deals
3. Delivering the Sustainable Development Goals (SDGs) in Agrifood Companies 2017

## UNIVERSIDAD SERGIO ARBOLEDA

Aug 2016 - Dec 2016

Bogotá, Colombia

Analysis of Cleaner Production Lecturer

- Designed the module Best Practices in Cleaner Production geared towards last year Industrial Engineering Students.
- Motivated the implementation of Best Practices in Cleaner Production in small and medium sized enterprises (SME's) in Bogotá, Colombia.

## HRA FOOD AND DRINK

Oct 2015 - Jan 2016

Torquay, United Kingdom

Data Analysis Intern

- Built a database of all products in the relevant industry from a different number of sources.
- Analysed every aspect of the British flavoured milk industry including main producers, brands, formulas, consumer trends, packaging and distribution.
- Suggested innovation strategies for the dairy industry and niche food markets in the UK.
- Wrote reports for the British flavoured-milk industry that included consolidated trends and suggested growth areas.
- Crafted unique and timely data visualisations to include in the company's marketing reports.
- Represented the company at national-level events including Food Matters Live.

## EDUCATION

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UNIVERSITY OF EXETER, Master of Science in Food Security & Sustainable Agriculture

2014-2015

Exeter, United Kingdom – Grade: Distinction Award

Research project: *Published in journal Philosophical Transaction of the Royal Society.*

UNIVERSIDAD DE LOS ANDES, Bachelor of Science in Industrial Engineering

2010-2014

Bogotá, Colombia – Grade: 4.02/5 (top 10% of cohort)

Key modules: Probability and Statistics, Optimization, Finances, Logistics, Organizations.

## GRANTS AND AWARDS

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María de Maetzu

2017

Spanish Ministry of Economy and Competitiveness (MINECO) – *Ten scholarships granted each year.*

Awarded a scholarship worth €50,000 to pursue a María de Maetzu PhD. 'María de Maeztu' Unit of Excellence is the highest institutional recognition of scientific research in Spain.

IBM, United Kingdom

2015

IBM Best Student Recognition Event 2015 – *Two students selected from each country per year.*

Awarded a place at the IBM Best Student Recognition Event in Amsterdam, Netherlands.

UNIVERSITY OF EXETER, United Kingdom

2014

Ayudar Scholarship – *Only two scholarships granted per year.*

Awarded £30,000 to fund tuition and maintenance fees during postgraduate studies.

## LANGUAGE SKILLS

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English (native), Spanish (native) and French (intermediate).