

Carolina Brañas

Data Scientist

(+34) 644 004 477
carobrasor@gmail.com
carobs9.github.io
github.com/carobs9
linkedin.com/in/carolinabranas
Madrid, Spain



Passionate about machine learning, network analysis, natural language processing, and geospatial data science.
Keen interest in data visualization and its role in communicating insights effectively.

EXPERIENCE

- Research Assistant, Data Science** *University of Copenhagen*
↔ Prof. Jeanet Bentzen

May 2024 – present

 - Contributed to the **Shocking Religion** project, analyzing economic effects of religious shocks.
 - Constructed and deployed topic modeling solutions with SentenceTransformers and BERTopic; developed LLM-based pipelines using retrieval-augmented generation (RAG) for contextual document analysis.
 - Conducted time series analysis and built visualizations to interpret long-term socioeconomic patterns.
 - Presented findings through technical reports and presentations tailored to diverse audiences.
 - Designed, dockerized, and deployed data solutions; leveraged UCloud to streamline large-scale data processing.
- Data Scientist** *Above Sports*

October 2023 – May 2024

 - Built computer vision models to improve company's logo detection tool.
 - Collaborated on process automation and product performance enhancements.
- Marketing Strategist** *Crescendo Collective*

September 2021 – May 2022

 - Conducted data analysis using Google Analytics and Ads, delivering actionable insights.
 - Led market research and supported automation of internal analytics pipelines.

EDUCATION

- M.Sc. Social Data Science**
University of Copenhagen
Thesis: Mobility and income segregation in Madrid, Spain
Elective Courses:

2022 – 2024

 - Advanced Machine Learning for Data Science (IT University of Copenhagen)
 - Geospatial Data Science (IT University of Copenhagen)
 - Advanced Network Science (IT University of Copenhagen)
 - Natural Language Processing (Department of Computer Science, DIKU)
- B.Sc. Marketing**
Cardinal Stritch University
Dean's List (2018–2022)
Best Graduating GPA in Marketing B.Sc. (2022)

2018 – 2022
- Computer Science Minor**
Cardinal Stritch University

2018 – 2022

LANGUAGES

Spanish and Galician: Native
English: Professional Proficiency
Portuguese: Beginner

AWARDS

Dean's List

2018–2022

Achieved Dean's List every semester of B.Sc. for a GPA above 3.5 with at least 12 credits.

Best Graduating GPA of Marketing B.Sc.

2022

Graduated with the top GPA (3.8/4.0) in Marketing.

Academic and Athletic Grant

2018–2022

Received a full scholarship for academic excellence and soccer performance over four years.

PROJECTS & EXTRACURRICULARS

Mobility and Income Segregation in Madrid *segregation-madrid*

2023

↪ Master's Thesis project

- Analyzed mobility and income segregation patterns using geospatial data, network analysis, and visual storytelling in Python.

CycleGAN Monet *CycleGAN_Monet*

2023

↪ Academic project for Advanced Machine Learning course

- Trained a CycleGAN model to convert real photos into Monet-style images. Implemented with PyTorch and conducted visual evaluation of stylization results.

SKILLS

PROGRAMMING: Python (numpy, tensorflow, matplotlib, pytorch), SQL, Bash

ML & NLP: Transformers, Topic Modeling (umap, hdbscan, bertopic), Scikit-learn, Hugging Face

GEOSPATIAL: Geopandas, Rasterio, QGIS

CLOUD / TOOLS: UCloud, Git, Docker, Linux, VSCode