

# CAROLINA BRAÑAS

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Passionate about machine learning, network analysis, natural language processing, and geospatial data science.

## EXPERIENCE

**University of Copenhagen** *Research Assistant in Data Science* **May 2024 – present**

↪ Prof. Jeanet Bentzen

- 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.

**Above Sports** *Data Scientist*

**October 2023 – May 2024**

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

**Crescendo Collective** *Marketing Strategist*

**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

**University of Copenhagen**

**2022 – 2024**

M.Sc. Social Data Science

*Thesis: **Mobility and income segregation in Madrid, Spain***

*Elective Courses:*

- 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)

**Cardinal Stritch University**

**2018 – 2022**

B.Sc. Marketing, Minor in Computer Science

*Dean's List (2018–2022)*

*Best Graduating GPA in Marketing B.Sc. (2022)*

**Cardinal Stritch University**

**2018 – 2022**

Minor in Computer Science

## AWARDS

Dean's List

**2018 – 2022**

Best Graduating GPA of Marketing B.Sc.

**2022**

Academic and Athletic Grant Through B.Sc.

**2018 – 2022**

## PROJECTS & EXTRACURRICULARS

**Mobility and Income Segregation in Madrid** [github.com/carobs9/segregation-madrid](https://github.com/carobs9/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** [github.com/carobs9/CycleGAN\\_Monet](https://github.com/carobs9/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

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Programming Languages	Python (numpy, tensorflow, matplotlib, pytorch), SQL, Bash
ML & NLP	Transformers, Topic Modeling (umap, hdbscan, BERTopic), Scikit-learn, Hugging Face
Geospatial Tools	Geopandas, Rasterio, QGIS
Cloud/DevOps	UCloud, Docker, Git, Linux, VSCode