

Antoine Carnec

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Summary

Hello! I am a recent Msc Data Science graduate, interested in pursuing a career in a technical data-facing role. I am a curious individual who has a strong passion for modern machine learning methods as well as using and creating software to solve problems. Excited to join a team where I can contribute my skills and knowledge to drive positive impact!

Technical Skills

Languages: Python, R, SQL, Julia, Stan

Relevant Libraries: Pandas, Numpy, Sklearn, Matplotlib, Tidyverse

Software: Linux, Docker, Airflow, Bash, Stata

Version Control: Git, Github

Topics in ML: Bayesian Modelling, Time Series Analysis, Bayesian Hypothesis Testing, Hierarchical Models, Sampling Methods, Probabilistic Programming, Regression Variable Selection

Education

Barcelona School of Economics

August 2021 - August 2022

Msc Data Science Methodology

- Grade: 8.47/10
- Relevant Subjects taken: Statistical Modelling; Optimization; Data Warehousing; Computational Machine Learning; Probabilistic Machine Learning; Machine Learning Theory.
- I achieved a grade of 9.2 on my master's project, which focused on developing and implementing a novel computational algorithm in Python to perform Bayesian Variable Selection. Supervised by David Rossell and Jack Jewson.

Trinity College Dublin

September 2017 – May 2021

B.A Moderatorship in Economics (Major) and Philosophy (Minor)

- Grade: First Class Honours.
- Focus on quantitative and technical classes: Mathematical Economics; Quantitative Methods; Econometrics; Game Theory; Economic Theory; Logic; Metaphysics.

Professional Experience





Economics Department, Trinity College Dublin

June 2020

Research Internship for Professor Andrea Guariso

- Data cleaning and analysis on regional Ugandan household data using Python and Stata.
- My work on merging two disparate datasets was valuable to allow the economists to properly supervise and extend their experiment.
- Responsible for assuring proper randomisation of sample for Randomised Control Trial.
- Left careful documentation of my work after I finished, to ensure reproducibility of the analysis.

Sample Academic Projects

- Static bayesian game of socialising under the risk of an infectious disease 
- Simulation study of frequentist vs bayesian unit root hypothesis testing 
- Prediction of live fuel moisture content in Southern California using geospatial, weather and plant trait data 
- Sequential monte carlo for approximate variable selection in generalized linear models 


Volunteering Experience

Trinity College Dublin Volleyball Club

2017-2021

- Treasurer of the club from 2019-2021. Tasked with tracking Club expenses and applying for a new Budget every season.
- Acted as fundraising officer from 2017-2019. Raised €1048 through organizing fundraising events.

Open Source Software

- I am contributing to **dream2nix** , a framework to build reproducible software from any language ecosystem.
- Made improvements to user facing API, in an effort to improve developer experience.

Language Skills and Interests

Languages: English (fluent) ; French (fluent) ; Spanish (conversational)

Interests: Bayesian Statistics; Open Source software; Linux; Nix package manager and ecosystem; Inline Skating; Flamenco Guitar

Volleyball: Captain of the TCD Student Team for the 2018/2019 season ; Winners of Volleyball Ireland SSI (Student) League 2020.

Bike Touring: Helped raise \$1030 for children in Yemen (Unicef), through a sponsored cycling trip across the west coast of Ireland with 5 friends in July 2020.