Lucia Musitu Eugui

musitulucia@gmail.com,
https://github.com/musitulucia, https://linkedin.com/in/lucia-musitu-eugui/
+34634558912

──── EDUCATION ────

2021 - 2023   **MSc in APPLIED MATHEMATICS,** *Imperial College London*   **LONDON**
- Achieved grade**: Distinction**.
- Explored courses such as Data Science & ML, Optimization, Statistical Modelling, and Option Pricing.
- Final project: Statistical Learning of the Generation Probability of Immune Receptors. Built different probabilistic models describing the stochastic process underlying the generation process of $\gamma\delta$ T-cell receptors, implemented the Expectation - Maximization algorithm to infer parameters, and carried distributional checks.

2018 - 2021   **BSc in MATHEMATICS with MANAGEMENT & FINANCE,** *King´s College London*   **LONDON**
- Achieved grade**: First Class Honors**. Positioned within the top 5% of my degree.
- Final project: Introduction to Measure Theory. Gained and in-depth knowledge of probability theory.

2012 - 2018   **SPANISH BACCALAUREATE,** *Miravalles - El Redín School*   **SPAIN**
- Achieved grade: **94%** in Bachillerato and **95%** in the national exams, Selectividad.
- Selected from 2015-2018 to participate in the Spanish Mathematics Olympiad.

──── WORK & LEADERSHIP EXPERIENCE ────

2024 - Present   **EQUITY RESEARCH INTERNSHIP,** *Van Lanschot Kempen - Investment Banking*   **AMSTERDAM**
- Conduct sectoral in-depth analysis on Benelux equities, create valuations using Excel.
- Write reports on listed companies and present published results to sales & trading teams.
- Support analysts in interactions with clients and covered companies.

2019 - 2021   **IMPERIAL & KCL STUDENT REPRESENTATIVE,** *Staff-Student Liaison Committees*   **LONDON**

2019 - 2019   **PROJECT ANALYST INTERN,** *Photovoltaic Solutions Engineering*   **SPAIN**
- Calculated efficiency and consumption rates through manipulation of energy data using python.
- Identified energy saving opportunities; ~ 450 potential self-consumption solar panel projects cutting 50% client´s costs.
- Performed in depth analysis of return rates and project´s profitability; reached 12% IRR and 45% levels respectively.
- Generated Excel spreadsheets, charts and graphs presented in client's meetings.

2017 - 2018   **FINALIST - NATIONAL DEBATE COMPETITION,** *Upna College Debating League*   **SPAIN**
- Extended critical thinking skills; attended a course following a case methodology.
- Led a team of 5 people to develop thesis and plan presentation structure.
- Debated in the Parliament of Navarra; broadened communication skills.

──── PROGRAMMING SKILLS ────

2024 - 2024   **Data Science,** *Le Wagon,* *9-week full-time intensive coding bootcamp*   **LONDON**
- Gained expertise on tools for Deep Learning, Machine Learning Ops and Data Analysis.
- Worked on a group project aiming to optimize a portfolio on equities. Explored different risk measures, expectation methods for predicting returns and covariance, optimisation techniques and objective functions.

Python:
- **Data Analysis:** SQL, Google BigQuery, Matplotlib, Jupyter, VS Code, Debugging (Basic), Bloomberg Terminal.
- **Machine Learning:** Scikit-learn, NumPy, Pandas, XGBoost, TensorFlow.
- **ML Ops and Dev:** GitHub, Git, Docker**,** Streamlit (Front), MLFlow, FastAPI, Google Cloud Platform.
- **Certificates**: Data Scientist Bootcamp (Le Wagon). Algorithmic trading with Python, ML & AWS (Udemy).
- **Topics**: solving PDEs, SDEs, Convolutional Neural Networks, Random Forest, Support Vector Machines, Kernelized SVMs, NMF, Stochastic Gradient Descent, Convex Optimization, Optimal Control.

R Studio: Courses on Advanced Statistical Modelling (Generalized Linear Models, Normal Linear Mixed Models)

──── INTERESTS & VOLUNTEERING ────

- **Languages**: Spanish (native), English (fluent, CAE Certificate), French (fluent, B2 DELF).
- **Sports**: Ski (SAFE), National Ski Championship participant 6 years, Scuba Diving (Advanced PADI), ballet dancer.

VOLUNTEER IN 4 INSTITUTIONS
- Organized a prize draw; raised funds for an Ugandan local school (España Rumbo al sur, 2018).
- Imparted workshops/ distributed meals to children with disadvantaged home scenarios (Villateresita, 2017).
- Connected 5 women at risk of social exclusion with employee seekers, assisted with job preparation such as building their CV (CORE, 2016-2017).
- Aided in training focused on broadening opportunities for people with disabilities (El Molino, 2015-2016).