

PAUL TRASSAERT

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Engineering Student seeking an Internship in Quant Trading, Front Office Development, Research, Risk & Data Science (Available from April 2026)

Education

IMT Atlantique <i>MSc in Engineering - Applied Mathematics & Quantitative Finance</i>	Brest, France 2024 – 2027
– Core Curriculum: Introduction to Machine Learning, Stochastic Modelling & Analysis, Numerical Methods.	
– Finance Track: Market Finance, Empirical Finance, Stochastic Dynamic Models.	
– Advanced Skills: Portfolio Management, Trading Algorithms, Advanced C++ Programming.	
Lycée de l'Essouriau <i>Preparatory Class for French Engineering Schools (CPGE)</i>	Les Ulis, France 2022 – 2024
– Intensive program in advanced mathematics, physics, and computer science.	
Institution du Sacré-Cœur <i>French Baccalaureate - Specialized in Mathematics, Physics, and Computer Science</i>	La Ville-du-Bois, France 2019 – 2022
– Focused on advanced scientific curriculum and foundations of programming.	

Projects

Coastal Cliff Erosion Modelling (BD MOMA Project) <i>Python, R, QGIS, Statistics</i>	2025 – 2026
– Collaborated with LETG Laboratory to develop database and mathematical models for erosion prediction.	
– Designed statistical and stochastic models linking geological, meteorological, and marine variables.	
– Developed and deployed machine learning algorithms for coastal cliff erosion forecasting.	
Modular Machine Learning Pipeline <i>Python, Scikit-learn, Pandas</i>	2025
– Engineered a modular classification pipeline automating data preprocessing, feature selection, and performance evaluation for binary classification. Evaluated and compared Random Forest, SVM, Gradient Boosting models...	
– Validated model robustness across balanced and highly unbalanced datasets using specialized sampling techniques.	
High-Performance Hyperspectral Unmixing <i>Julia, Distributed Computing, Optimization</i>	2025
– Developed a BSS solver using Projected Gradient Descent to decompose hyperspectral data under physical constraints (non-negativity/sum-to-one).	
– Achieved a speedup by implementing Julia distributed computing (<code>pmap</code>) to parallelize pixel-wise abundance updates.	
Big Data and Stochastic Processes <i>GCP, BigQuery, Python, Colab</i>	2025
– Processed and analyzed 50 GB of satellite data on Google Cloud Platform using BigQuery.	
– Applied machine learning methods to environmental time series analysis.	

Experience

Complétude <i>Tutor - Mathematics and Physics</i>	Brest, France 2024 – 2026
– Provided individualized tutoring for high school students at the final year level.	
Calamongo <i>Sales and Operations Assistant</i>	Monthléry, France June 2025 – July 2025
– Managed inventory reception, order tracking, and stock organization.	

Skills, Languages & Activities

Technical Skills: Python, R, Julia, C++, SQL, PyTorch, LaTeX, GCP (BigQuery), VS Code, QGIS

Specializations: Stochastic Modeling, Machine Learning, Numerical Analysis, Financial Markets

Languages: French (Native), English (B2), Japanese (A2)

Activities: President of the Table Tennis Club, Member of Finance Consulting Atlantic, Chess, Strength Training