



Internship – Risk analyst

Company : AXA Climate

Start : Earliest possible

Length : 6 months

Tutor : Vincent Féraud (vincent.feraud@axa.com), Anthony Sevrin (anthony.sevrin@axa.com)

Company

AXA, as one of the world leaders in financial protection, supports and advises its customers in three major business lines: Property & Casualty Insurance, Life & Savings, and Asset Management. Since 2014, AXA climate team has developed market-leading products to insure against climate risks. Clients range from individuals and corporations to governments and public institutions; they come from various weather-sensitive sectors across the world including agriculture, renewable energy, construction, transportation, leisure, and textiles.

Data scientists, meteorologists, business developers, and underwriters make up the parametric insurance team. Working closely together, they create innovative insurance products that meet clients' needs.

Mission

After four years and more than a hundred million euros turnover, AXA Climate is now aiming at consolidating and accelerating its development on the weather risks market.

AXA Climate is looking for an intern who will support the team in improving its risk analysis with weather-based models, advanced statistics and satellite-based imagery processing.

Its mission will be focused on wildfire modeling to deepen our understanding of the phenomenon and develop an appropriate weather risk model.

Main roles and responsibilities

In partnership with the team responsible for AXA Climate's innovative parametric wildfire insurance product, the intern will be actively supporting the technical and strategic development of the product:

1. Contribute actively to scientific and technical developments of wildfire risk models:
 - a. Process satellite images: Develop statistical models for wildfire risk (focus on wildfire ignition, wildfire propagation, etc.)
 - b. Explore and test other sources of data: radar, satellite, new providers...
 - c. Identify key issues surrounding wildfire events and propose solutions

2. Support the underwriting of parametric products:
 - a. Evaluate and validate partnerships with model and risk providers
 - b. Explain technical concepts and share modeling approaches with team
 - c. Prepare technical elements for meetings with stakeholders and clients

Skills

Education:

- Grandes Écoles d'Ingénieurs (X, CentraleSupélec, École des Ponts, Mines, ENSTA, ENSAE...)
- MSc in top universities (Paris-Saclay, Dauphine, Imperial College, ETH Zurich, EPF Lausanne...)

Background:

- Studies in Data Science, Statistics and Applied Mathematics.
- Knowledges in meteorology, atmospheric dynamics, and/or weather analysis will be an advantage.

Language:

- Fluency in English required
- Fluency in French desired

Required skills:

- Strong scientific skills: statistics, probabilities
- Python or R
- Treatment of various data sets: reanalysis, satellite, radar, etc.
- Strong autonomy
- Integrity
- Team spirit

Entity	AXA Climate
Department	Underwriting & Science
Location	36, rue de Saint-Pétersbourg, Paris 75009
Internship duration	6 months
Starting date	As soon as possible
Manager N+1	Antoine Denoix
Supervisor	Vincent Féraud (vincent.feraud@axa.com) Anthony Sevrin (anthony.sevrin@axa.com)