



Internship – *Data scientist & Risk analyst*

Company : AXA Climate

Start : Earliest possible

Length : 6 months

Tutor : Mia Vioules (mia.vioules@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

AXA Climate is looking for an intern who will support the team in modeling climate hazards with a focus on hail and convective storms over multiple geographical locations.

In addition to this modeling aspect, the intern will help the underwriting and business development team in delivering weather-related insurance solutions for clients.

Main roles and responsibilities

In partnership with the product and underwriting team, the intern will:

1. Contribute actively to scientific and technical developments (focus on convective storms)
 - a. Develop statistical models for risk
 - b. Explore and test other sources of meteorologic data : radar, satellite, new providers, etc.
 - c. Identify key issues surrounding high frequency weather events and propose solutions
 - d. Explain technical concepts and share modeling approaches with team
 - e. Analyze partnerships with model and risk providers

2. Support the underwriting of parametric products for clients (all weather risks):
 - a. Evaluate the risk
 - c. Prepare technical elements for meetings with stakeholders and clients
 - d. Support the development of new products with market studies

Skills

Education:

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

Background:

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

Language:

- French and English: fluency in one, conversational level in the other

Required skills:

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

	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	Mia Vioules (mia.vioules@axa.com), Anthony Sevrin (anthony.sevrin@axa.com)