

ANTOINE RAINAUD

Analytics Consultant

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Current Responsibility

Antoine Rainaud is consultant in the Analytics team in Milliman's Paris office.

Professional Work Experience

Wildfire detection, impact assessment on houses, and emissions monitoring:

- Use of satellite imagery to detect an active fire
- Detection of fire footprint with computer vision
- Computation of Normalized Burn Ratio to assess fire severity
- Use of Geo Analytics to estimate wildfire impact on houses
- Dynamic mapping of wildfire emissions

Pricing:

- Key pricing coefficient modeling for agriculture insurance:
 - Database creation with Open Data and internal data
 - Time series analysis
 - Spatiotemporal Machine Learning modeling

Strategy:

- Drafting of a target operating model of a "climate hub" for a large French insurer:
 - Benchmark of market best practice
 - Definition "climate hub's" key components (data, partners, IT, expertise...)

Climate risk analysis:

- Use of Geo Analytics to map area with flood risk and estimate portfolio exposure to flood
- Use of spatiotemporal Machine Learning to assess drought risk

Education

Ecole nationale des Sciences geographiques - Diplome d'ingenieur, Geomatique