



Weather Impact

Internship or thesis research

Statistical forecasting of convective weather patterns

Weather Impact

Weather Impact BV is a Dutch company specialized in the impact of extreme weather events and climate change. Our products and consultancy services are aimed at organizations that are impacted by extreme weather and the effects of climate change all over the world. We develop innovative tools that allow our clients to minimize risks and make decisions more effectively. Weather Impact offers an inspiring environment with creativity, challenging assignments and room for personal growth and development.

Who are you?

We are looking for an enthusiastic student with interest for weather and climate. You are in the final phase of a Master degree in Meteorology, Physics, Technical Geosciences or comparable. You:

- have excellent programming skills (e.g. R, Python or Matlab)
- love crunching data and have some experience with machine learning
- think independently of creative solutions
- have good communication and writing skills in English

Assignment

In the Netherlands convective showers mainly occur during the summer months in which extreme precipitation can develop along with thunder and hail. The associated costs for society can be immense. The goal of this project is to develop a statistical method to predict convective weather patterns from output of numerical weather prediction models. You will mainly make use of ensemble prediction systems. It is your task to find the most optimal combinations of parameters, thresholds and ensemble probabilities. An optimal method is developed by comparing the archive of the statistical model with historic events. The outcome is an algorithm that can be used in the operational processes of Weather Impact. The minimum duration of this research is three months.

What do we offer?

At Weather Impact you can expect room for initiative and implementation of your own ideas. We are a young company working in an international environment with a dedicated team of colleagues. Our office is located in a historic building near the city centre of Amersfoort and at walking distance from Amersfoort Central station. As a bonus we offer excellent coffee.

Interested?

For more information about Weather Impact, please check www.weatherimpact.com. If you have any questions concerning this advertisement, please contact Saskia van Pelt at +31 (0)33 4753535. To apply, please send a CV and motivation letter to info@weatherimpact.com.