



## Our Expertise

Geovariances offers a complete set of high quality training programs in geostatistics for beginners and experienced users.

Geovariances courses cover basic and advanced geostatistics and provide participants with plenty of hands-on practice with true-life data sets.

All courses are led by our highly experienced consultants.

Geovariances offers public courses around the world and throughout the year. Over the last 18 months, more than 250 trainees have participated in our training sessions.

Our consultants also provide in-house training and mentoring focused on your own needs.

Isatis, the geostatistical software solution from Geovariances, is regarded as the reference in geostatistics.

For more than 25 years, leading companies, consultancies and public bodies from the Environmental sector have been relying on Geovariances and Isatis for genuine expertise in geostatistics.

## Our Trainers

### Nicolas Jeannée

Consulting & Training Manager -  
Petroleum & Environmental Sector

Nicolas has 12 years experience in quantitative data analysis and geostatistical modeling. His expertise is focused on uncertainty assessment for both Oil & Gas applications (depth conversion, property modeling and volumetric determination) and Environmental issues (air, water and soil pollution). He has published in various journals and presented talks in numerous conferences. He taught more than 60 courses dedicated to (geo)statistics, mainly for industry and research organizations.

Nicolas holds a Master Degree in Applied Mathematics & Statistics from the University of Namur, Belgium and a Special Degree in Hydrogeology from the UPMC in Paris. He received his Ph.D. in geostatistics from Paris School of Mines in 2001.

### Ohélie Lemarchand

Consultant, Environmental

Ophélie joined Geovariances in 2007 after graduating from university with a master in mathematical engineering and a speciality in statistics. She spent 8 months in a French association for Air Quality Monitoring where she worked on ozone pollution automatic mapping.

Ophélie is mainly involved in environmental consulting projects and trainings. She also takes part in the Isatis Technical Support and documentation.

# Geovariances Training

## GEOSTATISTICS FOR RELIABLE MAPPING

3-day course

### Objective

The course objective is to present the basic concepts and methods of geostatistics for interpolating between data in environmental applications. The subject matter ranges from variograms to kriging and multivariate geostatistics. The potential pitfalls and hints in the geostatistical analysis of data are highlighted for each of these concepts. Particular attention is paid to the specific problems associated with air pollution.

### Key features

The ability of geostatistics to handle data that are characterised by spatial heterogeneity.

### Who should attend

The course is designed for geologists, engineers and other geoscientists requiring a practical introduction to geostatistical methods applied to data analysis, interpolation and simulation. No prior knowledge of geostatistics is required. However a basic understanding of statistics is recommended.

### Course content

- Introduction: what is geostatistics? The advantages of using geostatistics over existing methods.
- The foundation stone of geostatistics: quantifying the spatial behaviour via the variogram. Calculating, modelling and interpreting the directional variograms.
- Interpolating between the data: the theory and practice of kriging. The estimated values reflect the spatial continuity observed in the data.
- Multivariate geostatistics and cokriging. Incorporating the correlation between several variables improves the final estimate.
- Using non-stationary geostatistics to respect the trend present in the data.
- Integrating multidisciplinary data: incorporating remote sensing data, DTM's or other co-factors to produce a more realistic image.

### On-line registration

<http://www.geovariances.com/en/environment-geostatistics-for-reliable-cartography-co104>

### Contact

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