

# EXPLICITLY ACCOUNTING FOR LOCATION IN AGRICULTURE

### SPATIAL DATA ANALYSIS COURSE SERIES IN R & PYTHON

#### Introduction to Spatial Data Analysis in R (Oct 18 - Nov 01, '23)

Through this 3-week introductory course, you will learn how to work with spatial data in R, starting from importing different spatial datasets and creating simple maps, to conducting basic geocomputation on vector and raster data.

#### Spatial Regression in R (Nov 16, '23)

Through this course, you will learn about spatial dependency and spatial autocorrelation, the construction of spatial weight matrices, testing for spatial association and correlation and building

#### Introduction to Spatial Data Analysis in Python (Oct 06 - 20, '23)

This 3-week course focuses on using Python to work with spatial data for agricultural analysis. Topics include importing spatial datasets, creating maps, and geocomputation with vector and raster data. Prerequisites: Introductory Python knowledge.

## Spatial Modeling in Python (Oct 27 - Nov 03, '23)

This course explores spatial regression and interpolation techniques, emphasizing spatial dependency modeling. Topics include spatial weight matrices, association testing, spatial