

Workshop in Modeling Spatial and Space-Time Data
Isla de Margarita, Venezuela, June 20th, 2010

Instructors:

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Preliminary schedule:

Lecture 1: Basic elements of spatial statistics modeling and spatial prediction

Computing session 1: Using geoR

Lecture 2: Nonstationary spatial covariance models

Lecture 3: Gaussian Markov Random Fields for spatial data

Lunch

Computing session 2: Approximate inference for GMRF Models using the INLA package for R

Lecture 4: Frameworks for space-time models

Lecture 5: A space-time air pollution case study

Computing session 3: R tools for likelihood fitting of a space-time model

Summary session.

It is recommended that participants bring their own laptops. Participants who wish to work on their own data sets with help from the instructors are requested to submit the data with a short description in advance to pds@stat.washington.edu, so the instructors can judge the availability of suitable computing tools.