Potential attendants:

- Preferably, students should have completed –or be doing– graduate/postgraduate studies and/or research in topics related with SPATIAL ANALYSIS: Regional Science, Urban Economics, Local Planning, International Economics, Geopolitics, Transport, Networks, Geomarketing, Epidemiology, Geology, etc.

- Experts working in regional/urban research and local planning in Governmental Agencies and Research Institutes are welcome.

- Exceptionally, undergraduate students: > 200 ECTS credits.

REGISTRATION FEES:

Category	Before February 4, 2019	After February 4, 2019
Ordinary fees	250 €	400 €
UAM students	150 €	250 €
UAM former students ('Alumni')	200 €	320 €

A <u>STATA 15 free temporary license</u> will be provided if needed.

For PREREGISTRATION, send an email to econres@uam.es

SPATIAL ECONOMETRIC ANALYSIS WITH STATA AND R

Place: FACULTY OF ECONOMICS AND BUSINESS ADMINISTRATION, UNIVERSIDAD AUTÓNOMA DE MADRID

Duration: From February 11 to 15, 2019 (26 hours, 2.5 ECTS)

Faculty:

Prof. Coro Chasco (UAM, Spain)

Prof. Ludo Peeters (Hasselt University, Belgium)

Prof. Andrés Vallone (UCN, Chile)

Maximum: 25 students

Organized and sponsored by:

The GOAL of the Seminar is to provide the participants with a sound understanding of basic and more advanced principles of spatial econometrics and to offer tools for practical application of the methodology. Commonly available software products (*STATA* and *RStudio*) will be introduced and practiced in the PC training sessions.

Program:

I PART: How to use R for spatial analysis (10 hours).

1st Session: Monday 11th of February, 15:30 – 19:30 (4 hours)

    I.1. Introduction to R.

    I.2. Treating data with R.

    I.3. Using R

2nd Session: Tuesday 12th of February, 10:00 – 13:00 (3 hours)

    II.1. Think as a computer

    II.2. Conditionals

    II.3. Loops: how to build own functions

3rd Session: Tuesday 12th of February, 14:30 – 17:30 (3 hours)

    III.1. Use of pre-programming functions

    III.2. Basic statistics in R

    III.3. Packages: installation and usage

II PART: Spatial Autoregressive Models with R (9 hours).

4th Session: Wednesday 13th of February, 10:00 – 13:00 (3 hours)

    IV.1. Exploratory spatial data analysis (ESDA).

5th Session: Wednesday 13th of February, 14:30 – 17:30 (3 hours)

    V.1. Specification strategies in spatial cross-sectional regression models.

    V. 2. Example of specification and estimation strategies in cross-sectional regression models in R.

6th Session: Thursday 14st of February, 10:00 – 13:00 (3 hours)

    VI.1. Spatial panel data models in R.

III PART: Exploratory spatial data analysis and spatial econometrics using STATA (7 hours).

7th Session: Thursday 14st of February, 14:30 – 18:30 (4 hours)

    VII.1. Old STATA commands prior to STATA 15.

    VII.2. New STATA commands in STATA 15.

8th Session: Friday 15th February, 10:00 – 13:00 (3 hours)

    VIII.1. EXTENDED 'REAL WORLD' APPLICATION.

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