



INTERNATIONAL SPLIT SUMMER SCHOOL 2024

COURSE: ADVANCED RESEARCH METHODS IN REGIONAL SCIENCE

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Main topics

- Spatial econometric tools in R
- Spatial dependencies in economic data, with practical application to regional studies.
- Multisectoral and multi-regional economic models
- Robust economic and social simulations: with the introduction to innovative methodologies in regional science: such as spatial machine learning, agent-based modelling and Structural Equation Modelling
- Conduct survey methods and spatial analysis, culminating in the ability to conduct empirical research and neighbourhood analysis within regional science.

Programme structure

- 5-day course
- Class lectures, exercises, independent assignments, seminar work
- Online assignment in the form of a take-home essay (cca 10,000 words)

Important dates

- "Regular" application deadline: May 15, 2024
- "Regular" notification of acceptance: May 20, 2024
- "Regular" payment deadline: June 1, 2024

- "Last minute" application deadline: June 15, 2024
- "Last minute" notification of acceptance: June 17, 2024
- "Last minute" payment deadline: June 20, 2024

Price of the course:			
RATE TYPE	RATE AMOUNT	APPLICATION DEADLINE	PAYMENT DEADLINE
REGULAR RATE	645 €	If application materials are received by May 15, 2024	June 1, 2024
LAST MINUTE RATE	695 €	If application materials are received by June 15, 2024	June 20, 2024

Program plan	Lectures
<p>Day 1</p> <ul style="list-style-type: none"> - A Review of Software for Spatial Econometrics in R - Cross-sectional and spatial dependence in panel data 	<ul style="list-style-type: none"> -Prof. Eveline van Leeuwen -Prof. Eduardo A. Haddad -Assoc. Prof. Katarzyna Kopczewska -Assoc. Prof. Ozge Oner -Assoc. Prof. Blanka Šimundić -Assist. Prof. Giovanni Millo -Assist. Prof. Marija Vuković
<p>Day 2</p> <ul style="list-style-type: none"> - Spatial machine learning: new opportunities for regional science 	
<p>Day 3</p> <ul style="list-style-type: none"> - Multisectoral and Multi-regional Economic Modelling - Multisectoral and Multi-regional Economic Modelling – the case study - Croatia 	
<p>Day 4</p> <ul style="list-style-type: none"> - Survey methods - Agent-based modelling - A combination of the two: empirical simulation models - Structural Equation Modeling (SEM) in Regional Science 	
<p>Day 5</p> <ul style="list-style-type: none"> - Spatial Analysis in Regional Science - Neighbourhood Analysis - Empirical applications in recent research 	