Specialization: Spatial Economics

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(xkcd)

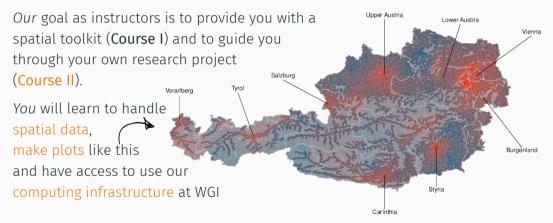
Economic models deal with dynamic processes—historically economists focused on time (think: economic cycles, intertemporal descisions).

Spatial economics raises the question where and why economic processes are taking place. It focuses on questions such as proximity, location, spatial interactions, and urban structures. It incorporates geographic concepts (e.g., spatial boundaries) to analyze economic processes.

We use econometric tools to bring space into economic analyses.

Topics and Outcomes

This course is structured along current debates in the scientific community, especially inequality, growth convergence, and environmental issues.



The Spatial Economics-Package

Specialization Seminar (I)

- Understand spatial processes, modelling
- Hands-on experience: Split theory/coding sessions
- Spatial Econometrics training using R
- Get to know current issues

Research & Policy Seminar (II)

- Special topics in spatial econometrics
- Real data, real issues, focus on spatial inequality
- $\cdot\,$ Get to know the R spatial ecosystem inside-out
- \cdot Write your own scientific paper, step-by-step

Units | Course I / Course II

Thu, 10.10.2019 Thu, 17.10.2019	Getting started: Algebra, OLS, Projections. Spatial Basics: Borders, Weights, Shapefiles.
Thu, 24.10.2019	Visuals: Plotting, Mapping, ESDA.
Thu, 31.10.2019	Econometrics I: Beyond OLS
Thu, 07.11.2019	Current topics, own project
Thu, 14.11.2019	Econometrics II: Impacts, Spatial Processes.
Thu, 21.11.2019	Advanced Spatial R Routines
Thu, 28.11.2019	Econometrics III: Advanced Regression techniques.
Thu, 05.12.2019	Special topics: GWR & friends.
Thu, 12.12.2019	Open Classroom for both courses [optional]
Thu, 19.12.2019	Final Exam
Thu, 09.01.2020	Deep-dive into R
Thu, 16.01.2020	Hacking Session
Thu, 23.01.2020	Final Presentations

Course I

Exam (65%) Assignments (20%) In-class discussion or student inputs (15%)

Course II

Class project/paper (75%) Presentation (15%) Active participation (10%)

Grading Key

- $\geq 90\%$ --+ Sehr gut
- $\geq 75\%$ --- Gut
- $\geq 60\%$ --+ Befriedigend
- $\geq 50\%$ --+ Genügend

Questions?

SPACE IS LITERALLY THE MOST STUPID THING THERE IS

-SLAVOJ ZIZEK