

A Topics for Master Theses

Social science topic from a spatial perspective or with spatial implications. Examples include regional economic growth, uneven spatial development, regional economic development, spatial and social polarization, the role of neighborhood effects, the scope and limits of globalization, etc.

In addition to a critical literature, we expect either theoretical, methodological or empirical additions to existing literature.

We prefer MA thesis to be in English, although German is possible.

Specific topics by Jürgen Essletzbichler

- A student-designed topic in economic geography, urban and regional economics/development; rising inequality; gentrification and social exclusion in cities; precarious living; gentrification and social exclusion in cities
- The impact of computerization on jobs in U.S. metropolitan areas (requires programming skills)
- The rust-belt snow-belt shift and its impact on U.S. wage inequality (requires programming skills)
- Social housing and voting in Vienna (mapping and programming skills required)

Specific Topics by Petra Stauer-Steinnocher

- Geodemographic and socioeconomic market analysis (diverse industries and spatial scales)
- Location/allocation modelling of businesses, public and private service centers, etc.
- Geospatial optimization of service networks (diverse industries, societal/humanitarian/NPO/NGO/GOV)
- Geospatial distribution network analysis (goods and services, B2B, B2C, NPO, GOV, NGO)
- GIS-based transport and logistics networks modeling
- Applications of spatial business analytics (diverse industries)
- Cloud-based geospatial supply chain services, tools and data
- Open geospatial data and tools for supply chain analytics
- Potentials and challenges of geo-IoT (Internet of Things) innovations for supply chain management
- Designing/programming/evaluating open-source and/or proprietary client server solutions for spatial business analytics

Specific topics by Mathias Moser

- Spatial Patterns of Environmental Pollution in the US
- Estimation of Profits for Austrian Farms based on the EU Subsidy Register
- What drives Austrian Income Inequality? (PCA Analysis)

Specific topics by Franziska Disslbacher

- The effect of increasing inequality on voting behavior in Austria (Empirische Arbeit)
- Immigration and voting behaviour (Empirische Arbeit)
- The effect of industrial decline on voting behavior (Empirische Arbeit)
- Regional wealth inequality in the US (empirisch)
- Multidimensional inequalities. Analyzing income, consumption and wealth Jointly (empirisch)
- Affluence and poverty in the US (empirisch)

Specific topics by Florian Martin

- Service network optimization of an Austrian emergency service provider (work with a real world dataset and optimize the coverage of potential emergency requests based on maximizing the coverage of the related probability distribution / experience in using GIS-software and related methods necessary / collaboration with business partner possible)
- Predicting the occurrence of emergency requests for an Austrian emergency service provider (work with a real world dataset and develop a model for predicting the occurrence of emergency requests, i.e. what is the expectation on how many, where, when emergencies will happen / collaboration with business partner possible)