

Senior and junior supervisor research topic application for the IPhD Programme in Regional Development, 2023-24

Name/position of the senior supervisor: Tamás Sebestyén, professor
Highest academic degree : PhD

Name/position of the junior supervisor: Richárd Farkas
Highest academic degree: PhD

Title of the suggested research topic:

Empirical applications of spatial econometrics in regional and space-related researches

The international relevance, importance, and timeliness of the research topic:

The large body of economic literature has been focusing on developing econometric estimation tools. One of the fields that started to develop in the last decades is spatial econometrics. Exploratory spatial data analysis and spatial econometrics are essential in estimation strategies since they may capture those previously unobserved effects that are related to spatial mechanisms. As such, employing spatial methods is crucial from academic and policy perspectives.

Which UP-FBE research could the PhD candidate join?

TKP research projects, RIERC research projects

Possible research directions:

Exploratory spatial data analysis (ESDA), spatial methods, spatial econometrics

The supervisor's expertise and experience in the research field

There has been ongoing research on empirical industrial organization applying spatial methods in the Faculty for several years under the leadership of Richárd Farkas. The promising possibilities of the research group and topic are well documented: the research findings are published in the best international and Hungarian journals without any exception.

The most important publications in the research field over the last five years

- Katalin Erdős – Dániel Kehl – Roland Baczur – Richárd Farkas (2022): When post-merger price effect becomes smoothed over time: A case of a gasoline market merger. *Energy Economics*, 105, 105682.
- Farkas Richárd (2017): Empirikus reakciógörbe-becslés a magyar kiskereskedelmi benzinpiacon. *Közgazdasági Szemle*, 64(3), 267-284.