

CRITICAL REVIEW

Spatial Econometrics

PhD Program in Economics

Universidad EAFIT

2026-I

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The idea of this exercise is to write a critical review on one of the paper in the references. There are several papers on different topics: agriculture, crime, environment, finance, migration, social issues, unemployment, land and urban economics. It is possible that a student wants to write a critical review on a paper that is not on the proposed list, so that he or she must get approval to do it.

Some rules:

- More than one student can work on the same paper, but every student has to work independently
- In order to prepare the critical review each student should do his or her best effort to read the paper and analyze its contribution
- The final document cannot be longer than 5 pages written in English, and it must show the student's personal view
- Whether the authors have shared the database, some journals encourage to share the database and also the code used, each student must check this, the students may use what they have learned in the computer lab to replicate some of the maps and figures in the paper and probably update and improve some of those
- It would be also desired to specify how to improve the paper and, if possible, how to implement the necessary updates
- The critical review should be delivered by **Friday 20th of February, 9 a.m.**
- All student should do a presentation (max. 20min) on the paper selected where present the main findings of the paper and her or his critical point of view. This presentation will be on **Friday 20th of February**

List of papers

Asgharian, H., Hess, W., and Liu, Lu (2013). “A spatial analysis of international stock linkages”, *Journal of Banking and Finance*, 37(12):4738-4754.

Botero, H. (2013). “The effects of drug enforcement on violence in Colombia 1999-2010: A spatial econometric approach”, *MPRA paper # 49459*.

Castiblanco, C., Etter, A., and Aide, T (2013). “Oil palm plantations in Colombia: a model of future expansion”, *Environmental Science and Policy*, 27:172-183.

Cepeda-Cuervo, E., Urdinola, P., and Rodríguez, D. (2012). “Double generalized spatial econometric models”, *Communications in Statistics-Simulation and Computation*, 41(5):671-685.

Cuartas, D., Ariza, Y., Pachajoa, H., and Méndez, F. (2011). “Analysis of the spatial and temporal distribution of birth defects between 2004-2008 at a third-level hospital in Cali, Colombia”, *Colombia Médica*, 42(1):9-16.

Diaz, A. (2015). “Spatial unemployment differentials in Colombia”, *Desarrollo y Sociedad*, 76:123-163.

Delmelle, E., Hagenlocher, M., Kienberger, S., and Casas, I. (2016). “A spatial model of socio-economic and environmental determinants of dengue fever in Cali, Colombia”, *Acta Tropical*, 164:169-176

Dowall, D. and Treffeisen, P. (1991). “Spatial transformation in cities of the developing world: Multinucleation and land-capital substitution in Bogotá, Colombia”, *Regional Science and Urban Economics*, 21(2):201-224.

Gutiérrez, D. (2011). “Determinantes de la localización del empleo urbano en Bogotá, Colombia”, *Revista de Economía del Rosario*, 14(1):61-98.

Holmes, J. Gutiérrez, S., and Curtin, K. (2006). “Drugs, violence, and development in Colombia: A department-level analysis”, *Latin American Politics and Society*, 48(3):157-184.

Jacquemond, M. and Breau, S. (2015). “A spatial analysis of precarious forms of employment in France”, *Tijdschrift voor Economische en Sociale Geografie*, 106(5): 536-555.

Kalenkoski, C. and Lacombe, D. (2008). “Effects of minimum wages on youth employment: the importance of accounting for spatial correlation”, *Journal of Labor Research*, 29: 303-317.

Keiler, S. and Eder, Armin (2015). “CDS spreads and systemic risk – a spatial econometric approach”, *International Journal of Finance and Economics*, 20(4):291-309.

Lozano-Gracia, N., Piras, G., Ibáñez, A., and Hewings, G. (2010). “The journey to safety:

conflict-driven migration flows in Colombia”, *International Regional Science Review*, 33(2):157-180.

Moreno-Monroy, A. and García, G. (2016). “Intra-metropolitan Agglomeration of formal and informal manufacturing activity: evidence from Cali, Colombia”, *Tijdschrift voor economische en sociale geografie*, 107(4):389-406.

Royuela V. and García, G. (2015). “Economic and social convergence in Colombia”, *Regional Studies*, 49(2):219-239.

Rincón, A., Pascual, U., and Romero, M. (2013). “An exploratory spatial analysis of illegal coca cultivation in Colombia using local indicators of spatial association and socioecological variables’’, *Ecological indicators*, 34:103-112.\

Sayago, J. (2014). “The spatial agglomeration of educated people in Colombia”, *Cuadernos de Economía*, 33(62):297-317.

Sierra, H. and Campo, J. (2013). “Regional equilibrium and migration patterns in the Americas 1960-2005: Spatial data panel analysis”, *Asian Journal of Latin American Studies*, 26(4):19-38.