**Centering or Suburbanization? Changing Location of Producer Services**

**in Shanghai**

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**Abstract:** Producer services are a critical indicator of global cities in advanced economies, whose spatial-temporal dynamics reflect the trajectory of urban transformation. However, the growth of producer services in China cannot be fully explained by current theories (e.g., neoclassical, institutional, global city, and human capital theories), especially regarding their development process and geographical contexts. This study developed a context-sensitive analytical framework to comprehensively examine the location of producer services in Shanghai, a global city. We used rigorous geospatial analytical methods and considered sectoral differences and local contexts, especially institutional factors and urban spatial structure. We found that producer services in Shanghai were still concentrated in the city center, but a dispersion trend could be detected, and subcenters were emerging in suburban areas. Further analysis highlighted producer service firms’ significant sector differences and various underlying spatiotemporal locational determinants. We identified positive effects of agglomeration on the emergence of centers for IT and research services. However, the concentration of financial and real estate services needs diversity, and agglomeration had a negative impact on them. Also, access to public transit promoted the development of IT and research services. Our study suggests that none of the existing theories alone can explain the location of producer servicer firms in Shanghai, and that sectoral heterogeneity and spatiality of producer services should be seriously considered in policy development and future studies.

**Keywords:** Global city, Producer Service, Agglomeration, Human Capital, China

**References**

Aranya, R. (2008). Location theory in reverse? Location for global production in the IT industry of Bangalore. *Environment and Planning A* 40: 446-463.

Cheng, F., van Oort, F., Geertman, S., & Hooimeijer, P. (2014). Science parks and the co-location of high-tech small-and medium-sized firms in China’s Shenzhen. *Urban Studies*, *51*(5), 1073-1089.

Coffey, W. J. (2000). The geographies of producer services. *Urban Geography*, *21*, 170-183.

Florida, R. (2002). *The rise of the creative class* (Vol. 9). Basic Books.

Han, S. S., & Qin, B. (2009). The spatial distribution of producer services in Shanghai. *Urban Studies*, *46*(4), 877-896.

Huang, Z., He, C., & Wei, Y. D. (2016). A comparative study of land efficiency of electronics firms located within and outside development zones in Shanghai. *Habitat International, 56*, 63-73.

Li, H. & Wei, Y.D. (2023) COVID-19, Cities and Inequality. *Applied Geography* 160: 103059.

Li, H., Wei, Y. D., & Wu, Y. (2019). Urban amenity, human capital and employment distribution in Shanghai. *Habitat International*, *91*, Article 102025.

Li, H., Wei, Y. D., Wu, Y., & Tian, G. (2019). Analyzing housing prices in Shanghai with open data: Amenity, accessibility and urban structure. *Cities*, *91*, 165-179.

McCann, P., & Sheppard, S. (2003). The rise, fall and rise again of industrial location theory. *Regional Studies*, *37*(6-7), 649-663.

Parnreiter, C. (2018). Producer service firms as global city makers: The cases of Mexico City and Hamburg. *Global City Makers: Economic Actors and Practices in the World City Network, Cheltenham, UK and Northampton, MA, USA: Edward Elgar Publishing*, 23-40.

Rao, Y., & Dai, D. (2017). Creative class concentrations in Shanghai, China. *Social Indicators Research*, *132*(3), 1237-1246.

Sassen, S. (2001). *The global city, Tokyo.* Princeton University Press.

Scott, A. J. (2010). Jobs or amenities? Destination choices of migrant engineers in the USA. *Papers in Regional Science, 89*(1), 43-63.

Shearmur, R., & Doloreux, D. (2008). Urban hierarchy or local buzz? High-order producer service and (or) knowledge-intensive business service location in Canada, 1991–2001. *The Professional Geographer, 60*(3), 333-355.

Taylor, P. J., Derudder, B., Faulconbridge, J., Hoyler, M., & Ni, P. (2014). Advanced producer service firms as strategic networks, global cities as strategic places. *Economic Geography*, *90*(3), 267-291.

Timberlake, M., Wei, Y. D., Ma, X. & Hao, J. (2014). Global cities with Chinese characteristics. *Cities, 41*, 162-170.

Wei, Y. D., Bi, X., & Ning, Y. (2016). Globalization, economic restructuring and locational trajectories of software firms in Shanghai. *Professional Geographer,* *68*(2), 211-226.

Wei, Y. D., & Leung, C. K. (2005). Development zones, foreign investment, and global city formation in Shanghai. *Growth and Change*, *36*(1), 16-40.

Wei, Y. D., Leung, C. K., & Luo, J. (2006). Globalizing Shanghai: Foreign investment and urban restructuring. *Habitat International, 30*(2), 231-244.

Wójcik, D. (2013). The dark side of NY–LON: Financial centres and the global financial crisis. *Urban Studies*, *50*(13), 2736-2752.

Wu, Y., Wei, Y. D., Li, H., & Liu, M. (2022). Amenity, firm agglomeration, and local creativity of producer services in Shanghai. *Cities, 120*, Article 103421.

Xiao, W., Wei, Y. D., & Chen, W. (2023). Skills mismatch, jobs-housing relationship and urban commuting. *Travel Behaviour and Society, 33*, 100610.

Yeh, A. G., Yang, F. F., & Xu, Z. (2017). Will rural urbanization produce a new producer service space in China?. *Habitat International*, *67*, 105-117.

Yuan, F., Gao, J., Wang, L., & Cai, Y. (2017). Co-location of manufacturing and producer services in Nanjing, China. *Cities*, *63*, 81-91.