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Education, health and environmental pollution in China

In this paper, we study both theoretically and empirically the nexus between air pollution, education and households' earnings in China. We account for air pollution in two ways: first via the number of pollution peaks, measured as the days per year above grade 2, second via the average daily PM concentrations. Using a theoretical setting in continuous time, we demonstrate that the agent's wealth is affected not only by PM concentration through health's effects but also by pollution peaks through their effect on education. In turn, both pollution effects influence the optimal education level. Then, using a conditional mixed-process to consider endogeneity on both education and particulate matters, we demonstrate that attainment in education is affected by pollution peaks. Households's earnings are also negatively affected by pollution stock. Finally, we also show that there is a non linearity effect of pollution stock on earnings.



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The impact of cross-border labor mobility on real estate prices: A natural experience