

Spatial Dynamics of Air Pollution and Income in China

ONLINE
No Participation Fee

2025.

1/29 WED.

14:00–15:30



Presenter

Alvaro Dominguez
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Alvaro Dominguez is an Assistant Professor at AGI specializing in the Economics of Networks and Environmental Economics. His work explores strategies for accelerating green technology adoption, distribution of pollutants in Japan, and network dynamics in negotiations. He holds a PhD in Economics from Nagoya University.

Abstract

We examine the spatial distribution of air pollution, specifically PM2.5 levels, and income across 285 prefectural-level and above cities in China. Our analysis combines static spatial dependence techniques to identify clusters of high pollution (hot spots) and low pollution (cold spots), highlighting a strong negative relationship between income and air pollution, with wealthier regions typically enjoying better air quality. To deepen this understanding, we apply spatial Markov chains to evaluate whether regions are converging over time in terms of air pollution and income levels. This integrated approach not only uncovers spatial patterns but also tracks temporal dynamics, providing insights that can inform strategies to enhance public health, promote environmental equity, and improve overall quality of life.

【Language】 English presentation and materials



This seminar will be held online (ZOOM).

【Registration】

- ① Via our application form: <https://forms.gle/37R2ZUj4sbiSuipL9>
- ② By E-mail: Send your name, affiliation and phone number to office@agi.or.jp.

We will send you a Zoom link to you by e-mail. (Deadline: January 28 at 12pm)

【Organizer】 Asian Growth Research Institute

【Contact Info】 ☎ 093-583-6202 ✉ office@agi.or.jp

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