

# JEANNE SORIN

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## Academic Positions

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Assistant Professor	
Goldman School of Public Policy, University of California Berkeley	2026–
Postdoctoral Scholar	
Institute for Climate and Sustainable Growth, University of Chicago	2025–2026

## Education

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Ph.D. Economics, University of Chicago	2019–2025
M.A. Economics, University of Chicago	2019–2021
M.Sc. Economics, Sciences Po	2016–2019
B.A. Social Sciences, Sciences Po	2013–2015

## Research and Teaching Fields

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Primary:	Development Economics, Urban and Spatial Economics
Secondary:	Environmental Economics

## Publications and Accepted Papers

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**Learning is in the Air: Clean Air as an Experience Good** (with B. Resosudarmo and Y. Sun). **Accepted** at *Journal of Development Economics* based on Pre-Results Review.  
AEA RCT Registry No. 0013110

*Abstract: Despite the enormous costs of air pollution, willingness-to-pay (WTP) for clean air in polluted developing contexts remains low. We posit one understudied reason is that clean air is an experience good, whose value is revealed after consumption. We test this using a cluster-randomized trial, and seek to document an experience wedge, i.e. a difference between anticipated and realized utility of consuming a good. We deploy a novel experience-based intervention, installing air monitors and purifiers, potentially a more salient treatment than traditional information in pamphlets or videos. To explore the mechanisms behind the hypothesized wedge, we implement a purifier-only treatment to distinguish between (1) knowledge about objective pollution exposure and (2) the sensory experience of breathing in clean air. This will be the first experimental evidence demonstrating how experience can shift demand for clean air, with implications for public health policy, environmental awareness campaigns, and using WTP estimates in economic evaluations.*

## Working Papers

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**Public Roads on Private Lands: Land Costs and Optimal Road Improvements in Urban Uganda.**

*Abstract: Despite the need for transportation infrastructure investments in developing cities, empirical evidence on their net returns is lacking due to data constraints and the common oversight of land acquisition costs. In this paper, I collect novel data to estimate the net returns of 140 km of road improvements in Kampala, Uganda, since 2017, accounting for both benefits and land acquisition costs. Using new surveys with real estate brokers and landowners, I exploit variation in the timing of improvements to estimate local benefits. I develop a quantitative spatial model to capture the city-level impacts*

of the policy, accounting for general equilibrium effects and heterogeneous land acquisition costs. Leveraging the coexistence of three property rights regimes in the city, I show that weak property rights are associated with lower land acquisition costs. I find that the net welfare gains from the realized road improvements were equivalent to a 119 USD transfer per resident, but would have been negative if land had been acquired at market value, as legally mandated under eminent domain, due to the high cost of raising domestic funds. Finally, I solve for the optimal road improvements under different institutional settings and demonstrate the importance of accounting for land costs when designing, funding, and evaluating transportation infrastructure projects, particularly in low- and middle-income countries where land acquisition relies on fragile land and financial institutions.

### **Jobs in the Smog: Firm Location and Workers Exposure to Pollution in African Cities**

(with V. Bassi, M. Kahn, N. Lozano Gracia and T. Porzio).

AEA RCT Registry No. 0014162

**Abstract:** *Air pollution within African cities is high but unevenly distributed. In principle, individuals could mitigate the severe health risk by working in the less polluted parts of the city. In practice, we show that pollution avoidance is challenging because firms locate on the busiest and most polluted roads searching for customer visibility. Both workers and entrepreneurs bear the cost of this pollution exposure, but the benefits are unequally distributed: profits are much higher in polluted areas, while compensating differentials in wages are minimal. An information experiment reveals limited awareness of pollution, suggesting that workers might be undercompensated for their exposure.*

### **Exposures to Indoor and Outdoor PM<sub>2.5</sub> in a Developing Megacity**

(with D. Rahut, B. P. Resosudarmo, D. Suryadarma and Y. Sun).

**Revise and Resubmit** at *Proceedings of the National Academy of Sciences (PNAS)*

**Abstract:** *Exposure to fine particulate matter (PM<sub>2.5</sub>) poses major health risks, especially in rapidly urbanizing cities. As urbanization accelerates, people in low and middle-income countries spend more time indoors, where pollution risks remain poorly understood. We present evidence from over 152,000 monitor-hours of indoor PM<sub>2.5</sub> measurements across homes in Jakarta, Indonesia one of the world's largest and most polluted cities. We find that daily means of both indoor and outdoor PM<sub>2.5</sub> levels are dangerously high, eight times above World Health Organization (WHO)'s health-based guidelines. In addition, indoor PM<sub>2.5</sub> frequently reach hazardous levels, 40 to 100 times the WHO guideline, levels that outdoor monitors do not capture. Unlike in high-income or low-income rural settings, most indoor pollution originates from outdoor infiltration. Survey data further reveal large inequalities in exposure: lower-income households experience twice the mean indoor PM<sub>2.5</sub> of higher-income households. Given the high infiltration of outdoor PM<sub>2.5</sub>, especially in dwellings inhabited by the most disadvantaged residents, policymakers should prioritize reducing outdoor sources. Researchers and policymakers should also integrate outdoor air quality mapping with demographically representative indoor monitoring to close key data gaps, enabling more accurate exposure estimates and better-targeted environmental health policies.*

### **Work in Progress**

**Traffic Solutions in Delhi.** (with Michael Greenstone and Anant Sudarshan)  
**French Railroad Shrinkage.**

### **Awards, Scholarships**

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Young Economist Prize - European Economic Association	2025
Theodore Schultz Economics Fellowship Award	2024 - 2025
Certificate in Urban Science & Sustainable Development (University of Chicago)	2023

Graduate Fellowship (University of Chicago)	<i>2019 - 2024</i>
EPIC DRW Graduate Fellowship (University of Chicago)	<i>2019 - 2024</i>
Best Master's Thesis (Sciences Po)	<i>2019</i>
<i>Cum laude</i> (top 10%) bachelor degree (Sciences Po)	<i>2016</i>

## Grants

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Research Grant (w. Y. Sun et al.) (Asian Development Bank) (\$99,548)	<i>2024</i>
Research Grant (w. Y. Sun) (WEISS) (\$49,391)	<i>2023</i>
PhD Research Grant (STEG-CEPR) (\$19,458)	<i>2023</i>
Development Economics Research Fund (University of Chicago) (\$14,105)	<i>2023</i>
Lloyd and Susanne Rudolph Fieldwork Award (CISSR) (\$4,800)	<i>2023</i>
Pilot Grant (IGC) (\$14,165)	<i>2023</i>
Project Preparation Grant (IGC)	<i>2022</i>
Pilot Grant (w. Y. Sun) (WEISS Fund) (\$8,720)	<i>2021</i>
Proposal Development Grant (w. Y. Sun) (KCAI JPAL) (\$41,696)	<i>2021</i>

## Teaching Experience

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Elements of Econ. Analysis I (undergraduate)	Lecturer	<i>Fall 2022</i>
Math Camp (graduate)	TA	<i>Fall 2023</i>
App. Microeconomics in Econ. History (graduate)	TA for Prof. Rick Hornbeck	<i>Winter 2023</i>
Environmental Economics II (graduate)	TA for Prof. Michael Greenstone	<i>Winter 2022</i>
El. of Econ Analysis I Honors (undergraduate)	TA for Prof. Victor Lima	<i>Fall 2021</i>

## Research Experience and Other Employment

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Research Assistant for Prof. M. Greenstone, University of Chicago	<i>2021</i>
Research Assistant for Prof. T. Porzio and V. Bassi, Columbia University and USC	<i>2018-2019</i>
Research Assistant for Prof. M. Kahn, USC	<i>2018</i>
Research Assistant for Prof. F. Oswald, Sciences Po	<i>2018-2019</i>
Research Assistant for Prof. J. Cage, Sciences Po	<i>2016-2017</i>
Intern Antitrust, NERA Economic Consulting (Paris)	<i>2017</i>

## Professional Experience

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Co-Founder and Organizer of Energy and Env. Econ. Student Sem., University of Chicago	<i>2021-2023</i>
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**Conferences and Seminars** 2025-2026: *NBER SI (Development), EEA, Uganda IX's Economic Growth Forum, LSE Environmental Week, Yale University, Haas (UC Berkeley)*  
2024-2025: *NU GPRL Rookiefest, BREAD, WB Infra4Dev*  
2023-2024: *IGC Uganda Climate Change Workshop, JHU Cities and Development Workshop*  
2022-2023: *LSE Environmental Week, WB-IGC 7th Urbanization & Poverty Res. Research Conference*  
2021-2022: *NBER Summer Institute (Urban), North American Meeting of the Urban Economic Association, Northeast Universities Development Consortium (NEUDC) Conference, STEG Annual Conference*  
2020-2021: *PacDev, European Meeting of the Urban Economic Association*

**Refereeing Activity** *Journal of Environmental Economics and Management, Journal of the Association of Environmental and Resource Economists, Journal of Transport Economics & Policy, Journal of Development Economics*

**Other Writing**

Urbanisation, transport and the environment: Some considerations for a more productive Kampala (with Juliana Oliveira-Cunha), *IGC Policy Brief UGA-24185*

**Additional Information**

<b>Citizenship</b>	France
<b>Programming Skills</b>	Julia, R, Stata, Python
<b>Languages</b>	French (Native), English (Fluent), Spanish (Intermediate)