

Sandra Aguilar-Gomez

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EDUCATION

Columbia University

Ph.D., Sustainable Development (Expected) 2021
M.Phil., Sustainable Development 2020
M.A., Sustainable Development 2019
Fields: Environmental Economics, Development Economics, Public Health
Advisors: Rodrigo Soares (chair), Jeffrey Shrader, Anja Benschaul-Tolonen

Instituto Tecnológico Autonomo de Mexico (ITAM)

B.A., Economics 2014
Honors thesis - *Violence in Mexico: Drug-related crimes, income effects and consumption adaptation*

RESEARCH

Job Market Paper - *Adaptation and mitigation of pollution: evidence from air quality warnings*

Standard economic analyses of environmental policy focus on either reducing pollution externalities through mitigation or reducing the harms from exposure by encouraging adaptation. In practice, these issues are both critical, particularly when looking at the health effects of local air pollutants, which can be acute, and policymakers often pair information provision with short and long-run mitigation actions. This paper studies one widely used example of such a policy— air quality alerts. I explore whether, in the context of the Mexico City air quality alert program, information policy is more effective when paired with mitigation. I find that the policy did not improve air quality or health outcomes until the mitigation component, which limited transport emissions, was introduced. I also use sensor-level traffic data, geo-tagged accident reports, and search data as a measure of awareness of the policy to unveil the mechanisms through which considerable short-run improvements in air quality and health are achieved after issuing an alert. I find that the alert reduces car usage even before the driving restrictions enter into place, suggesting that, due to an increased awareness of pollution, people reduce their trips.

Selected work in progress

Leadership, mobility and COVID19: evidence from mobile phone data with Eva Arceo-Gomez and Elia de la Cruz Toledo

Inside the black box of child penalties with Eva Arceo-Gomez and Elia de la Cruz Toledo

Weather and credit management with Emilio Gutierrez, David Heres, David Jaume and Martn Tobal

Norms Formation: The California Gold Rush and womens roles with Anja Benschaul-Tolonen

Measurement error in labor surveys with Carlo Alcaraz and Javier Cano

Giving birth under the weather: environmental shocks and health care

Published Work

Baum, A., Aguilar-Gomez, S., Lightwood, J., Bruzelius, E., Glantz, S. A., Basu, S. (2020). *Estimating the long-run relationship between state cigarette taxes and county life expectancy*. Tobacco Control, 29(1), 81-88.

BenshaulTolonen, A., AguilarGomez, S., Batzer, N. H., Cai, R., Charles, E. (2020). *Period teasing and stigma: a survey of adolescent boys and girls in Northern Tanzania* Plos One. Forthcoming

RESEARCH EXPERIENCE

Bank of Mexico - Economic Research Division (DGIE) Summer Research Fellow	<i>July 2019 - Sep 2019</i>
Columbia University - International Affairs Research Assistant for Prof. Jan Svejnar	<i>May 2018 - Dec 2019</i>
Barnard College - Economics Department Research assistant for Prof. Anja Tolonen	<i>May 2017 - Mar 2018</i>
Mount Sinai Icahn School of Medicine - Arnhold Institute of Global Health Data Science Division. Summer Research Fellow	<i>May 2019 - Jan 2018</i>
Central Bank of Mexico Economic Research Division. Economist.	<i>Mar 2014 - Jul 2016</i>

TEACHING EXPERIENCE

Columbia University

Teaching assistant, Economic Development, Prof. Michael Gechter	<i>Spring 2020</i>
Teaching assistant, Economic Development, Prof. Miguel Urquiola	<i>Spring 2019</i>
Teaching assistant, Environmental Economics, Prof. Wolfram Schlenker	<i>Fall 2018</i>
Teaching assistant, Marcoeconometrics, Prof. Dalibor Etanovic	<i>Spring 2018</i>
Teaching assistant, Research Methods in Public Policy, Prof. Selcuk Eren	<i>Fall 2017</i>

Instituto Tecnologico Autonomo de Mexico (ITAM)

Main Instructor, Gender economics.	<i>2018, 2019</i>
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SELECTED FELLOWSHIPS AND AWARDS

Victor L. Urquidi Prize in Economic Research	<i>2020</i>
Student Research Grant, Columbia University Center for Environmental Economics and Policy	<i>2020</i>
Earth Institute Travel Grant	<i>2020</i>
Lead Teaching Fellow, Columbia University	<i>2019 - 2020</i>
Student Research Grant, Columbia University Center for Development Economics and Policy	<i>2019</i>
Wu Fellowship for Research on Health and Public Policy	<i>2017 - 2021</i>
Dean's Fellowship, Columbia University	<i>2016 - 2021</i>
First place, Citibank Economic Research Award	<i>2014</i>

First place in the 5th International Thesis Contest on Violence and Crime in Latin America and the Caribbean, United Nations Development Program	<i>2015</i>
Bank of Mexico Fellowship	<i>2014 - 2016</i>
Academic Excellence Scholarship, ITAM	<i>2009 - 2014</i>

SELECTED PRESENTATIONS

NBER 2020 Summer Institute: Gender in the Economy	<i>July, 2020</i>
Association of Environmental and Resource Economists (AERE) Virtual Conference	<i>May, 2020</i>
The Workshop in Environmental Economics and Data Science (TWEEDS)	<i>October, 2020</i>
AGW Workshop on Poverty, Development and Globalization, Bangalore, India	<i>June 2019</i>
Annual World Bank Conference on Land and Poverty Washington, DC (poster)	<i>March 2019</i>
North America Young Scholars Initiative Convening, Los Angeles, CA	<i>February 2019</i>
APPAM International Conference, Mexico City, Mexico	<i>July 2018</i>
Interdisciplinary Ph.D. Workshop in Sustainable Development, New York, NY	<i>April 2018</i>
Sustainable Development Research Symposium, New York, NY	<i>April 2018</i>

SERVICE

Founder and director, Columbia Sustainable Development PhD Mentoring Program	<i>2020</i>
Co-Organizer, Ninth Interdisciplinary Ph.D. Workshop in Sustainable Development	<i>2019</i>
External Relations Officer, Mexican Students Association at Columbia University	<i>2017-2018</i>
Co-organizer, Interdisciplinary Ph.D. Workshop on Sustainable Development, Columbia University	<i>2018</i>
Co-organizer, Science and Policy Summer School, Columbia University and Science Po Paris	<i>2017</i>
Advised theses: Ricardo Olivares (ITAM, undergraduate)	
Refereed theses: Karla Doig (ITAM, graduate), Maria Jos Cota (CIDE, undergraduate)	

SKILLS

Computing Skills	Stata, R, QGIS, ArcGIS, LaTeX
Languages	Spanish (native), English (fluent; Toefl ibt 109/120, Cambridge FCE), French (B2)

REFERENCES

Rodrigo Soares (chair)

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Jeffrey Shrader

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Anja Benschaul-Tolonen

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Eva Arceo-Gomez

Department of Economics

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