# VINCENT BAGILET

@ vincent.bagilet@columbia.edu  +33 6 13 38 18 18  vincentbagilet.github.io

## Education

**PhD in Sustainable Development** 2024 (expected)
Columbia University

**Master in Quantitative Economics (PPD)** 2018
Paris School of Economics (PSE)

**Master in Environmental Economics** 2017
AgroParisTech - Paris-Saclay University

**Master in Engineering, specialization in Energy** 2017
Ecole Centrale Lyon, last year at Ecole Centrale Paris

**B.A in Economics and Management** 2015
Université Lumière Lyon 2

## Research Fields

**Environmental Economics, Applied Microeconomics**

## References

**Jeffrey Shrader**
Columbia University
SIPA
420 West 118th Street,
New York, NY 10027, US
+1 (212) 851-9443
jgs2103@columbia.edu

**Sylvain Chabé-Ferret**
Toulouse School of
Economics (TSE)
1 esplanade de l'Université
31000 Toulouse, France
+33 (0)5 61 12 88 28
sylvain.chabe-ferret@tse-fr.eu

**Suresh Naidu**
Columbia University
Dept. of Economics, SIPA
420 West 118th Street,
New York, NY 10027, US
+1 (212) 854-0027
sn2430@columbia.edu

## Working Papers

**Causal Exaggeration: Unconfounded but Inflated Causal Estimates** [*Project website*, *Download*]

Abstract: The credibility revolution in economics has made causal inference methods ubiquitous. At the same time, an increasing amount of evidence has highlighted that the literature strongly favors statistically significant results. I show that these two phenomena interact in a way that can substantially worsen the reliability of published estimates: even when causal identification strategies successfully reduce bias caused by confounders, they can induce a low statistical power and create another type of bias, leading to exaggerated effect sizes. This exaggeration is consequential in environmental economics, as cost-benefit analyses turn estimates into decision-making parameters for policy makers. I characterize this trade-off using a formal mathematical derivation and realistic Monte Carlo simulations replicating prevailing identification strategies. I then discuss potential avenues to address it.

**Accurately Estimating Small Effects: Air Pollution and Health** [*Project website*, *Download*]

Abstract: This paper identifies tangible design parameters that might lead to inaccurate estimates of relatively small effects, the short-term health effects of air pollution. Low statistical power not only makes relatively small effect difficult to detect but resulting published estimates also exaggerate true effect sizes. We first document the existence of this issue in the epidemiology and economics literature of interest. Then, we identify its drivers using real data simulations that replicate most prevailing inference methods. Finally, we argue relevance to many other literatures and propose a principled workflow to evaluate and avoid exaggeration when conducting a non-experimental study.

## Work in progress

**The Environment in the Public Sphere: Structural vs Individual Discourses**

**Peer Effects in Pro-Environmental Behaviours** , *joint with Marion Leroutier, Théo Konc*

**Burden and Acceptability of the French Carbon and Gasoline Taxes**

## Research Experience

**Visiting PhD student** May – July 2023
Sciences Po, Economics Department, with *Emeric Henry*

**Visiting PhD student** June – August 2022
Toulouse School of Economics (TSE), with *Sylvain Chabé-Ferret*

**Visiting PhD student** June – July 2019
University of Oxford, INET, with *Linus Mattauch*

**Research Intern in Environmental Economics** April – Sept 2017
CIRED

**Research Intern in Geopolitics of Resources** April – June 2016
ENS Lyon, Michel Serres Institute

**Research Intern in Development Economics** January - April 2016
GATE Lyon

**Research Intern in Political Economy** May - Aug 2015
South African Institute of International Affairs

## Teaching Experience

### Teaching assistant at Columbia University

**Environmental Science for Sustainable Development (PhD)** Fall 2021, 2022, 2023
**Microeconomics and Policy Analysis II (Grad)** Spring 2022
**Challenges of Sustainable Development (Undergrad)** Spring 2021
**Macroeconometrics (Grad)** Spring 2020
**Microeconomics and Policy Analysis I (Grad)** Fall 2019, 2020
**Tutor: Microeconometrics, Macroeconometrics (Grad)** Fall 2019, Spring 2022

## Fellowships and Grants

**SIPA Dean's Fellowship, Columbia University** 2018-2024

## Academic presentations

**2023**: *TSE Environmental Economics Workshop*

**2022**: *EuHEA Conference*, TSE Environmental Economics Workshop*

**2021**: *Interdisciplinary Ph.D. Workshop in Sustainable Development, FAERE annual conference**

* = co-author

## Service

**Referee:** *Economics of Transition and Institutional Change*

**Core-organizer:** *Interdisciplinary PhD Workshop on Sustainable Development (2021)*

**Co-organizer:** *Alliance Summer School in Sustainable Development (2019)*

## Other information

**Languages:** French (*native*), English (*fluent*), Spanish (*conversational*)

**Software skills:** R , LaTeX , Git , Matlab , Stata , Photoshop

**Citizenship:** French