

# Davide Castellani

## Curriculum Vitae

### PERSONAL DETAILS

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<i>Birth</i>	January 7, 1997
<i>Address</i>	4, Leonardo Da Vinci, 60015 Falconara Marittima (AN), Italy
<i>Phone</i>	+39 3664492775
<i>Mail</i>	davide.castellani@carloalberto.org

### EDUCATION

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<b>Visiting PhD student</b> <i>University of California, Berkeley &amp; Global Policy Lab</i> Host professors: Paolo D'Odorico and Solomon Hsiang	2023/2024
<b>PhD in Economics</b> <i>Collegio Carlo Alberto - University of Turin</i> Supervisors: Giovanni Mastrobuoni and Elena Esposito	2021-present
<b>MSc. in Economics</b> <i>Alma Mater Studiorum - University of Bologna</i> Supervisor: Alessandro Tavoni	2019-2021
<b>Erasmus+</b> <i>Technological University Dublin, Ireland</i>	2018/2019
<b>B.Sc. in Economics, Markets, Institutions</b> <i>Alma Mater Studiorum - University of Bologna</i>	2016-2019

### RESEARCH INTERESTS

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Environmental Economics, Urban Economics, Development Economics

### REFERENCES

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**Giovanni Mastrobuoni**  
Collegio Carlo Alberto & University of Turin  
Email: giovanni.mastrobuoni@carloalberto.org

**Elena Esposito**  
Collegio Carlo Alberto & University of Turin  
Email: e.esposito@unito.it

**Solomon Hsiang**  
Stanford University  
Email: solhsiang@stanford.edu

**Paolo D'Odorico**  
University of California, Berkeley  
Email: paolododo@berkeley.edu

## **JOB MARKET PAPER**

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### **The Long-Run Effects of Tropical Cyclones on the U.S. Housing Market**

**Abstract:** Housing is a major component of wealth in the U.S. Despite tropical cyclones causing around \$1.3 trillion in damages since 1980, surpassing all other recorded weather disasters in U.S. history, there remains a lack of empirical evidence regarding their long-term effects on the housing market. Here, I investigate the impact of tropical cyclones on housing market in the contiguous United States from 1988 to 2021, utilizing a novel dataset. Combining data from the National Hurricane Center with a radial hurricane winds model, I develop a new measure of wind speed and offer the first insight on the overall impact of all recordings cyclones at the county-yearly level. I use the local projections approach to difference-in-differences to estimates dynamic effects of cyclones on the housing value. Despite an initial increase in housing value following cyclones, findings reveal a significant 15% decline in the housing market over a 8-year period. The observed effects are not driven by factors such as employment, income, and migration. Instead, it appears that the driving force behind the effect on housing is the increased number of issued insurance policies.

## **WORKING PAPER**

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### **A Socio-Economic Index for Country-Level Analysis of Food Security**

with Alessandro Tavoni (University of Bologna) & Paolo D'Odorico (University of California, Berkeley)

*R&R in Nature Communications*

**Abstract:** The study of the relationship between poverty and food insecurity across countries remains a challenge because we lack a country-scale economic indicator that captures how poverty reduction is related to access to food. Empirical evidence of the negative relation between food security and poverty is still sparse at country level and it is unclear how economic access to food - a pillar of food security - can be quantified. We propose a global socio-economic index of food security (SEF), defined as the ratio between the per capita income of the least affluent segment of the population and the per capita food expenditure of the whole population. We estimate it for 110 countries in the 2000-2017 period, and test its applicability by evaluating SEF's ability to explain a country's performance in feeding its population. We find evidence of a negative relationship between SEF and the Prevalence of Undernourishment (PoU). Consistent with the hypothesis that the prevalence of undernourishment is significantly smaller in countries where the income of the poor is high relative to food expenditure (with high SEF values), we conclude that SEF explains a large part of variation of the prevalence of undernourishment. Following a quantile regression, we find non-linearities between PoU and SEF suggesting that it is important to study food insecurity by considering different levels of PoU and economic indicators. This finding supports the use of the index as a quantitative indicator of economic access to food in international development studies. The availability, comparability and explanatory power of the country-scale SEF index suggests that it may complement more granular approaches in informing policymakers about the patterns of food insecurity and their underlying economic factors across time and space.

## **WORK IN PROGRESS**

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### **The Detrimental Effects of Wind Turbine Visibility on Touristic Flows and Real Estate Prices: Evidence from Italy**

with Gabriele Pinto (Sapienza University of Rome)

### **The Unintended Consequences of Transparency Laws: Evidence from the Italian Gasoline Market**

with Giovanni Mastrobuoni (CCA & UniTO), Andrea Pozzi (EIEF), Simon Martin (DICE), Ragip Kaan Erdemli (University of Barcelona), Marcella Nicolini (University of Pavia)

## EXPERIENCES

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### World Bank-IFC Fellowship

2025

*Washington D.C.*

From February to September 2025, I will be with the Climate Finance division at the International Finance Corporation (IFC), where I plan to expand my research on the impacts of extreme natural events on less developed countries. Specifically, I will focus on how physical damages from such events translate into value losses within creditors' portfolios and examine the potential consequences for rising public debt levels in these regions

### Research Assistant

2024

*University of Turin*

Assist Elena Esposito with "Epidemics and Conflict: Evidence from the Ebola outbreak in Western Africa". Construction of a distance indicator from the epicenter that accounts for the road network: Inspired by Storeygard (2016), the goal is to determine the distance between each geographic unit and the epidemic epicenter by calculating the shortest path along the country's road network. Identification of a dataset for paved roads and production of Python code

### Teaching Assistant

2023

*University of Turin*

Microeconomics (Bachelor's degree)

### Research Assistant Program

2020

*Alma Mater Studiorum - Università di Bologna*

With Alessandro Tavoni

### Internship Scholarship in Financial Aid Services

2019

*Technological University Dublin City Centre, Ireland*

Work in the financial department of the university. Cost analysis and budget analysis of clients, participating also to department meetings

## SKILLS

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<i>Languages</i>	Italian(mother tongue), English (Professional working proficiency)
<i>Software</i>	L <sup>A</sup> T <sub>E</sub> X, Stata, Python, QGIS

## CONFERENCES

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### Department of Agricultural & Resource economics seminars

2024

*University of California, Berkeley*

### Global Policy Lab seminars

2024

*University of California, Berkeley*

### SIEP conference

2024

*University of Cagliari*

### ECCD Workshop

2024

*Gran Sasso Science Institute, L'Aquila*

### Ibeo/Crenos conference

2023

*University of Sassari*