

Valentin GUYE

French citizenship
15/11/1994
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I am a PhD candidate conducting empirical research on the economic causes of land use change.
I am looking for a postdoctoral position in Europe from the 1st of September 2022.

Education

- 2019-2022 **PhD** jointly supervised by Dr. Raja Chakir (Economie Publique, INRAE) and Prof. Sabine Fuss (MCC, HU) **Université Paris-Saclay (ABIES) and Humboldt Universität zu Berlin (Geographisches Institut)**
Doctoral training: Estimation of Treatment Effect Winter Semester 2019/20 Humboldt Universität Berlin
Introduction to GIS, Geospatial Data & Spatial Statistics – Nick Bearman
Google Earth Engine for Remote Sensing & GIS – Udemy, online
Several trainings in open science and scientific documentation - ABIES
- 2016-2017 **M2 EDDEE – Economics of Sustainable Development and of the Environment** – with distinction.
Master thesis (available upon request): *A cost-effectiveness assessment of result-based agri-environment payment schemes across Europe.* **Grade:** 16/20
Jury: Jean-Christophe Bureau, INRA (president) ; Stephane DeCara, INRA
AgroParisTech
- 2015-2016 **M1 Master in Economics, Université Paris-Saclay**
2nd semester: Advanced macroeconomic analysis II (PhD-level); Game theory; Advanced econometrics (PhD-level); Topics in energy and network economics. **Humboldt Universität zu Berlin**
1st semester elective courses: Environmental Economics; Macroeconomic Policy. **Ecole Polytechnique**
- 2014-2015 **Third year undergraduate student in Economics & Management**
Statistics and econometrics, micro and macroeconomics, development economics, accounting and organisation theories. **Ecole Normale Supérieure de Cachan**
- 2012-2014 **“Classe préparatoire D2”** leading to being admitted as a civil servant student at ENS Cachan. **Lycée Juliette Récamier – Lyon**
- 2012 **“Baccalauréat”** (French High School Diploma), economics and social sciences section and European English distinction, with honours. **Lycée Saint-Just – Lyon**

Professional experience

- 2018-2019
9 months
Berlin
Visiting research fellow for 9 months at the **Mercator Research Institute on Global Commons and Climate Change (MCC)** in the Sustainable Resource Management Working Group.
Evaluation of the environmental and socio-economic effects of the biodiesel industry in Indonesia.
Reference: Dr. Nicolas Koch – Koch{at}mcc-berlin{dot}net
- 2017-2018
Gap year: travelling and volunteering.
- 2017
4 months
Brussels
Internship at **DG AGRI, European Commission**, in Unit D.4 “Environment, climate change, forestry and bio-economy”.
Production in full autonomy of a **cost-effectiveness assessment of result-based agri-environment payment schemes across Europe.**
Reference: Olivier Diana – olivier{dot}diana{at}ec{dot}europa{dot}eu
- 2016
3 months
Grenoble
Internship at the CNRS laboratory of sustainable development and energy economics (**EDDEN**) in Grenoble (part of the Grenoble Applied Economics Laboratory, GAEL).
Participation to a **meta-study of the willingness to pay for climate stability** (literature screening, database shaping and data extraction over 34 studies).
Reference: Dr. Odile Blanchard – odile{dot}blanchard{at}univ-grenoble-alpes{dot}fr
- 2015
2 months
Helsinki
Internship at the economic service of the **French embassy in Finland.**
Production of notes about the Finnish economy, its pension fund system or its banking system for instance.

Miscellaneous

Languages

French: Native language
English: Advanced (C1)
(TOEIC: 945)
German: Intermediate (B2)

IT

Active: R, Google Earth Engine, Stata, Excel, Git, LaTeX, Zotero
Passive: QGIS, GeoDa, Gams

Grants

- Civil servant "normalien" 4-year salary
- PhD grant "Contrat doctoral spécifique pour normaliens" 2019-2022
- DAAD Doctoral cotutelle scholarship 2019-2020

Presentations

AERE Summer Conference 2021
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International Conference in Development Economics 2021
Internal MCC and Economie Publique seminars 2019-2021
PhD Lunch Talk CEE-M 2021
EAERE Winter School: postponed to 2023

Others

Sailing: Volunteer instructor at the sailing school *Les Glénans* since 2013
Driving licence (B)

Research papers

Price incentives and unmonitored deforestation: Evidence from Indonesian palm oil mills, with Sebastian Kraus - FAERE Working Paper, 2021.11. Most recent version [here](#)
Under review at the Journal of the European Economic Association

We create a novel, spatially explicit microeconomic panel of Indonesian palm oil mills, to provide the first estimates of deforestation price elasticities based on observations of the actual prices paid at mill gates. To identify the price elasticity, we spatially model how deforestation in upstream plantations is exposed to downstream, conditionally exogenous, shocks on mill-gate prices. We provide the first evidence that deforestation for smallholder plantations, and illegal deforestation, are price elastic. This implies that a price instrument can disincentivize deforestation where it is most difficult to monitor, and contain leakages from conservation regulations.

Research projects

Indirect land use change from biofuels: empirical evidence from the US Renewable Fuel Standards and pan-tropical deforestation

Globalized and interdependent agricultural markets mediate supply and demand shocks across commodities, space and time. This has been theorized and simulated in a vast literature, in particular to quantify the indirect land use change (ILUC) effect of biofuel policies on tropical forests. In this paper, I provide empirical tests of these theories at comprehensive commodity, spatial and time scales, and I estimate deforestation for soy and oil palm attributable to the United-States Renewable Fuel Standards (RFS), one of the major biofuel policies worldwide. I use the early-determined agenda of biofuel mandates under the RFS, interacted with the orthogonal distribution of potential yields from 20 land uses, to causally investigate several predictions from ILUC theories. RFS mandates increase deforestation in places that are relatively more suited for crops that are substitutes (as a land use and/or for consumption) with maize, the main biofuel feedstock under RFS. This confirms market-mediated theories of ILUC, and that biofuel policies can cause tropical deforestation. These evidence are clearer in America than in Asia, than in Africa. Deforestation for soy in America, and for oil palm in Asia, does react to biofuel mandates, but magnitude estimates are not yet available.

The effect of fighting corruption on deforestation, evidence from Indonesia

Deforestation in Indonesia is on a declining trend since 2015. Understanding the causes of this conservation achievement is critical to make this trend durable and protect other forest frontiers. The fight against corruption is one potential cause but its effect on deforestation has been overlooked so far in academia. Studies have shown the role of the kabupaten-level political economy in deforestation, and journalistic investigations have documented corruption in the decentralized Indonesian state. Yet, the conservation side effect of anti-corruption actions led by the Indonesian anti-corruption agency (KPK) has not been rigorously demonstrated. I tabularize exhaustive archive data on the trace of cases handled by the KPK since its creation in 2004. To identify the causal effect, I exploit recent advances on the combination of synthetic control methods with event studies to leverage that, at the district level, the staggered rollout of KPK actions is exogenous to deforestation. If satisfying, this methodological approach can be used to assess other side effects of anti-corruption actions, e.g. on local development and economic performance.