SÉBASTIEN ANNAN-PHAN

PhD Candidate - University of California, Berkeley

Economist × Data scientist

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Technical skills

Quantitative Methods	Causal inference, econometric methods, time-series, prediction, spatial analysis.
Languages & Tools	R, Python, STATA, SQL, LaTeX, Git, QGIS, OpenSesame.

Education

University of California, Berkeley (expected) 2021
PhD in Economics - College of Natural Resources

Université Paris Dauphine, Paris 2014
MSc in Energy Economics

École Normale Supérieure, Paris-Saclay 2012
B.A in Economics, *dual degree with Université Paris Sorbonne*
B.A in Management, *dual degree with Université Paris Dauphine*

Experience

Amazon Web Services summer 2019
PhD Intern *Seattle*

· I applied causal inference framework to estimate demand for large computing power and the feasibility of dynamic pricing, with a focus on identifying heterogeneous treatment effects (eg., **supervised clustering**, random forest and **causal tree**). [*SQL* and *R*]

Energy Policy Institute at the University of Chigaco (EPIC) 2015-2017
Research Specialist *Chicago*

· As part of the Global Carbon Project, I used a combination of empirical methods and simulations tools to study the impact of climate change on key economics sectors. Methods included **meta-analysis** and large **panel data regression**. [*Python, R,* and *Stata*]

Compass Lexecon spring & summer 2014
Economist Intern *Paris*

· I worked in the litigation and economics department on several regulatory and market design projects for European utilities and **anti-trust regulators**. Projects included: electricity storage potential, nuclear assets assessment and market power abuse. [*Stata*]

French Parliament (Sénat) summer 2012
Intern *Paris*

· Drafted bill proposal on fuel tax exemptions and environmental taxation.

Research

Nature, 2020. "*The effect of large-scale anti-contagion policies on the COVID-19 pandemic*" with Hsiang S., Allen D. et al. Ranked 22nd most discussed paper of 2020 ↗

The Energy Journal, 2018. "*Market integration and wind generation: An empirical analysis of the impact of wind generation on cross-border power prices*" with Roques F.

The Energy Journal, 2016. "*The Impacts of Variable Renewable Production and Market Coupling on the Convergence of French and German Electricity Price*" with Keppler, J. H. and Le Pen Y.

Working Papers (submitted):

"*A Distribution of Human Attention to Moments in Time Using Google Trends Data*". Annan-Phan S., Biardeau L., and Hsiang S.

"*Public Mobility Data Enables COVID-19 Forecasting and Management at Local and Global Scales*" Illin C., Annan-Phan S., Tai X. et al.

Talks (selected):

Annual AERE summer conference, Association of Environmental and Resource Economists (June 2019)

SIPA Workshop in Sustainable Development, Columbia University (April 2019)

FSR Young Researcher Seminar, European University Institute (July 2017)

IAEE PhD Workshop, International Association for Energy Economics (November 2016)

Distinctions

Tuaropaki Trust Doctoral Fellows, Goldman School of Public Policy	*2019 - 2020*
Hoos Sidney Best Econometric Paper Award, UC Berkeley	*2019*
International Graduate Fellowship, University of Chicago	*2016 - 2017*
Civil Servant Student Full Scholarship, École Normale Supérieure	*2011 - 2015*

Affiliations

Global Policy Laboratory, Goldman School of Public Policy Doctoral Fellow	*2017 - Present*
Chaire of European Electricity Markets, Université Paris Dauphine Research Fellow	*2014 - Present*

Teaching

Microeconomics	
University of California, Berkeley	*2017 - 2019, 2021*
Université Paris-Descartes	*2013*
Industrial Organization	
Université Paris-Dauphine	*2014*