

# Curriculum Vitae

Nicolas ASTIER

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## Contact & information:

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## Current positions:

Postdoctoral scholar, Stanford university (since 2019)

- Advisor: Prof. Charles D. Kolstad
  - Grant from the Bits and Watts initiative at the Precourt Institute for Energy
- Ingénieur des Ponts, des Eaux et des Forêts (since 2013)

**Citizenship:** French

## Education:

Ph.D.: Toulouse School of Economics (2017)

- Thesis title: *Essays on the economics of modern electricity markets*
- Supervisors: Prof. Thomas-Olivier Léautier and Prof. Jean Tirole
- Jury:
  - o Prof. Estelle Cantillon (Université Libre de Bruxelles)
  - o Prof. Richard Green (Imperial College London)
  - o Prof. Claude Crampes (Toulouse School of Economics)
  - o Prof. Michel Le Breton (Toulouse School of Economics)

Masters:

- École Nationale des Ponts et Chaussées (2013), Engineer
- Stanford University (2012), Civil and Environmental Engineering
- École Polytechnique (2011), Engineer

B.S.: Louis Le Grand (2008), Mathematics and Physics

## Past positions:

2016-2019: Economist, French Energy Regulatory Commission

2013 (Spring): Research Intern, Electricité de France (EDF) R&D

2011 (Spring): Research Intern, Institute of Chemistry, Chinese Academy of Science

## Research areas:

Energy Economics, Industrial Organization, Regulation and Market Design

## Publications

*Refereed Journal Articles in economics*

- Demand response: smart market designs for smart consumers, forthcoming in The Energy Journal (with Thomas-Olivier Léautier)
- Ensuring capacity adequacy in liberalised electricity markets, The Energy Journal, 2019 (with Xavier Lambin)

- Comparative feedbacks under incomplete information, Resource and Energy Economics, 2018

#### *Other publications*

- Good consumer or bad consumer: Economic information revealed from demand profiles, IEEE Transactions on Smart Grid, 2017 (with Yang Yu, Guangyi Liu, Wendong Zhu, Fei Wang, Bin Shu, Kai Zhang and Ram Rajagopal)
- On associations between Tropical Cyclone activity in the South-West Indian Ocean and El Niño Southern Oscillation, Atmospheric Science Letters, 2015 (with Matthieu Plu and Chantal Claud)

#### *Working papers*

- Second-best pricing for incomplete market segments: Application to electricity pricing
- Power and the pandemic: Exploring global changes in electricity demand during COVID-19 (with Elizabeth Buechler, Siobhan Powell, Tao Sun, Chad Zanolco, Jose Bolorinos, June Flora, Hilary Boudet, and Ram Rajagopal)

#### **Awards and grants:**

- 2016: grant from the ECOCEP Program for a two-month visit to UC Berkeley
- 2014: second student prize from the French Association of Energy Economists
- 2013: Ph.D. grant (from the Corps des Ponts, des Eaux et des Forêts)

#### **Presentations:**

- 2020: IAEE session at the Allied Social Science Associations (ASSA) Annual Meeting (San Diego), AERE Summer Conference (virtual)
- 2019: invited seminar at IFN (Stockholm), YES Annual Conference (Stanford), Twelfth Conference on The Economics of Energy and Climate Change (Toulouse School of Economics), Annual conference of the International Association of Energy Economists (HEC Montreal), SEEPAC Lunch Seminar (Stanford)
- 2018: seminar at IFPEN (Paris)
- 2017: invited seminar at CIRED (Paris)
- 2016: ENTER seminar (Stockholm School of Economics), poster at the Annual conference of the International Association of Energy Economists (Bergen)
- 2015: EWI CIES Summer School (Cologne), Tenth Conference on The Economics of Energy and Climate Change (Toulouse School of Economics)
- 2014: Young Economists seminar of the French Association for Energy Economists (Paris)

#### **Teaching:**

- 2018: session on electricity network tariffs within the BADGE RDE training at the Ecole des Mines ParisTech (Executive education)
- 2012 (Spring): teaching assistant of Prof. Rajagopal for his course on Power Systems at Stanford University (Masters level)
- 2009-2010: Math examiner at Louis le Grand (B.S. level)
- 2009-2010: voluntary science classes to underprivileged students (high school level)