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PERSONAL INFORMATION

Born on 5 February 1990, Spanish citizen.

REFERENCES

Professor David K. Levine
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Professor Natalia Fabra
Universidad Carlos III Madrid
Calle Madrid, 126
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EDUCATION

2016 - current	Ph.D. in Economics , European University Institute - 2019: PhD visiting student, Universidad Carlos III de Madrid Thesis Title: <i>Essays in Applied Microeconomic Theory</i> Expected Completion Date: <i>June 2021</i>
2015	Master Analyse & Politique Économiques, Paris School of Economics
2014	M. Sc. Economics, London School of Economics
2012	BA in Economics, Universidad Carlos III de Madrid

TEACHING & RESEARCH FIELDS

Political Economy, Energy and Environmental Economics, Industrial Organization, Cultural Evolution.

RESEARCH PAPERS

Publications

The Construction of National Identities, with Milena Almagro (**JOB MARKET PAPER**).
Theoretical Economics, 15 (2), 763-810

This paper explores the dynamics of nation-building policies and the conditions under which a state can promote a shared national identity on its territory. A forward-looking central government that internalizes identity dynamics shapes them by choosing the level of state centralization. Homogenization attempts are constrained by political unrest, electoral competition and the intergenerational transmission of identities within the family. We find nation-building efforts are generally characterized by fast interventions. We show that a zero-sum conflict over resources pushes long-run dynamics toward homogeneous steady states and extreme levels of (de)centralization. We also find the ability to foster a common identity is highly dependent on initial conditions, and that country-specific historical factors can have a lasting impact on the long-run distribution of identities.

Working Papers

Strategic Storage and Market Structure, with Natalia Fabra.

We assess firms' incentives to operate and invest in energy storage facilities. Since our focus is on how such incentives depend on the market structure, we allow for market power in storage and/or generation, as well as for vertical integration between storage and generation. Market power reduces overall efficiency through two channels: it induces an inefficient use of the storage facilities, and it distorts investment incentives. The worst outcome is achieved under vertical integration. We illustrate our theoretical results by simulating the Spanish electricity market for different levels of storage capacity. The results are key to understand how to regulate energy storage, an issue which is critical for the deployment of renewables.

Decarbonization and the dynamics of environment-friendly values and technologies.

We analyze how the co-evolution between consumers' environmental concerns, innovation in sustainable technologies and the politics of environmental policies can overcome a "carbon lock-in". A key complementarity between value adoption and technological change determines whether societies achieve a low-carbon economy, or instead remain in a bad equilibrium where innovation in polluting technologies and environmentally unconcerned citizens reinforce each other. Public interventions such as Pigouvian taxes and educational campaigns, even when short-lived, can have long-standing effects, as they increase the likelihood of entering the virtuous cycle. We characterize the conditions under which electoral competition leads to public interventions that reduce the carbon footprint. Our results show that the electoral process tends to reinforce the complementarity, as it favors the majoritarian group. The analysis suggests a key role for forward-looking cultural leaders such as green parties in determining whether society crosses the tipping point that leads towards a decarbonized economy.

WORK IN PROGRESS

Multidimensional Politics and Cultural Dynamics, with Milena Almagro.

SCHOLARSHIPS & AWARDS

2020-2021	Fundación Iberdrola Research Grant
2016-2020	Scholarship <i>Salvador Madariaga</i> , 4-year funding for Ph. D. at EUI
2014-2015	Bank of Spain Fellowship
2013-2014	Fundación Ramón Areces Scholarship

RESEARCH EXPERIENCE AND OTHER EMPLOYMENT

2015-2016	Economic analyst NERA Economic Consulting, Energy practice, Madrid
2011-2012	Research Assistant to Prof. Antonio Cabrales Universidad Carlos III de Madrid

PRESENTATIONS IN CONFERENCES AND SEMINARS

2019	ASREC Europe 2019 (Lund, Sweden) ASSET 2019 (Athens, Greece) SAEe 2019 (Alicante, Spain)
2020	Energy Economics Workshop UC3M (Madrid, Spain)
Upcoming	Econometric Society European Winter Meeting (webinar) Universidad de Málaga (webinar) APSA Virtual Formal Theory Workshop (webinar)

OTHER SKILLS

Languages	Spanish (native), English (fluent), Italian (basic)
Programming	Mathematica (advanced), Excel (advanced), Matlab (intermediate), Stata (basic)