

Benjamin Leiva

Curriculum Vitae

PERSONAL INFORMATION

Birth 29 de febrero, 1988
Address 0 calle 16-60 Zona 15 Colonia El Maestro
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Webpage [Google Site](#)
ResearcherID I-6176-2019
ORCID [0000-0002-2312-2532](#)

EDUCATION

PhD. in Agricultural and Applied Economics

2019

The University of Georgia

Bsc. in Economics

2013

Universidad de Chile

RESEARCH INTERESTS

Energy economics, inequality, sustainability, energy transitions, environmental economics, resource economics, economic development, economic theory

CURRENT OCCUPATION

Director at the Observatorio Económico Sostenible of the Universidad del Valle de Guatemala and profesor at the Universidad del Valle de Guatemala

PUBLICATIONS

- **Leiva, B.**, Najera, A., Van Houtven, G. & Vasquez, W. Valuing Water Service Reliability and In-Home Water Infrastructure: A Hedonic Price Model from Guatemala. *Utilities Policy*, 8:101526.
- **Leiva, B.** & Schramski, J. (2022). On the rules of life and Kleiber's law: the macroscopic relationship between materials and energy. *Heliyon* 8(6):E09647.
- Wade, C. M., Baker, J. S., Van Houtven, G., Cai, Y., Lord, B., Castellanos, E., **Leiva, B.**, Fuentes, G., Alfaro, G. Kondash, A.J., Henry, C. L., Shaw, B., & Redmon, J. H. (2022). Opportunities and spatial hotspots for irrigation expansion in Guatemala to support development goals in the food-energy-water nexus. *Agricultural Water Management* 267: 107608.
- Henry, C. L., Baker, J. S., Shaw, B. K. , Kondash A. J., **Leiva B.**, Castellanos, E., Wade, C. M., Lord, B., Van Houtven, G., Redmon, J. H. (2021). How will renewable

energy development goals affect energy poverty in Guatemala? *Energy Economics* 104.

- Kondash, A.J., Herrera, I., Castellanos, E., Baker, J., **Leiva, B.**, Van Houtven, G., Fuentes, G., Alfaro, G., Henry, C., Wade, C., Redmon, J. (2021). Food, energy, and water nexus research in Guatemala – A systematic literature review. *Environ. Sci. Policy* 124:175–185.
- Hagggar, J., Casanoves, F., Cerda, R., Cerretelli, S., Gonzalez-Mollinedo, S., Lanza, G., Lopez, E., **Leiva, B.** & Ospina, A. (2021). Shade and Agronomic Intensification in Coffee Agroforestry Systems: Trade-Off or Synergy? *Front. Sustain. Food Syst.* 5:131.
- **Leiva, B.** (2020). Natural resource rent allocation and concession design: the case of copper in Chile. *Resources Policy* 68 101748.
- **Leiva, B.**, & Mar, R (2020). The Energy and Gross Domestic Product Causality Nexus in Latin America 1900-2010. *Inter J of Energy Econ and Pol* 10(1):423-435.
- **Leiva, B.**, & Liu, Z. (2019). Energy and economic growth in the USA two decades later: replication and reanalysis. *Energy Economics* 82:89-99.
- **Leiva, B.** (2019). Why are prices proportional to embodied energy? *Biophys Econ Sust* 4:14.
- **Leiva, B.**, Ramirez, O. A., & Schramski, J.R. (2019). A framework to consider energy transfers within growth theory. *Energy* 178:624-630.
- **Leiva, B.** (2019). Energy's place in economic theory. Disertación de doctorado. Disponible en [ResearchGate](#).
- Landerretche, O., **Leiva, B.**, Vivanco, D., & López, I. (2017). Welcoming uncertainty: A probabilistic approach to measure sustainability. *Ecol Indic* 72:586–596.
- **Leiva, B.** (2016). ¿Apropiación privada de renta de recursos naturales? El caso del cobre en Chile. *Trimest Econ* 83:549–572.
- **Leiva, B.** (2013). The big gift: copper in Chile, institutional framework and rent. Tesis de pregrado. Disponible en <http://www.tesis.uchile.cl/handle/2250/111643>.

ARTÍCULOS UNDER REVIEW

- Changes in economics of coffee production across the 2010's decade: a tale of two Central American countries. *Agribusiness*. July 2023.

REFEREE

- *Data*
- *Renewable & Sustainable Energy Reviews*
- *The Energy Journal*
- *Energy Economics*
- *Biophysical Economics and Resource Quality*

- *Environment and Development Economics*
- *Resources Policy*
- *Sustainability*
- *Energies*

PROJECTS

Programa J-PAL y UVG de Sondeo y Arranque en Guatemala, Honduras y El Salvador 2023

J-PAL y UVG

Research Fellow

Guatemala Country Private Sector Diagnostic (Agriculture) 2022

World Bank

Principal Investigator

Descarbonization pathways (AFOLU) 2021-2022

European Climate Fund & IADB

Principal Investigator

Data portal on Guatemalan development 2021-2022

Universidad del Valle de Guatemala

Principal Investigator

Guatemalan coffee sector study 2019-2020

University of Greenwich

Data analyst

TEACHING EXPERIENCE

Quantitative methods 2022

Maestría en Desarrollo, Universidad del Valle de Guatemala

Professor

Environmental finances for sustainability 2021-2022

Maestría Gestión Ambiental y Sostenibilidad, Universidad del Valle de Guatemala

Professor

Microeconomics 2019-2022

Facultad de Ingeniería, Universidad del Valle de Guatemala

Professor

Macroeconomics 2019-2021

Facultad de Ingeniería, Universidad del Valle de Guatemala

Professor

Introduction to economics 2014

Programa de Bachillerato, Universidad de Chile

Adjunct professor

Introduction to sustainability

Facultad de Economía y Negocios, Universidad de Chile

Adjunct professor

2014

Introduction to ecology

Facultad de Economía y Negocios, Universidad de Chile

Adjunct professor

2013-2014

SELECTED CONFERENCES AND PRESENTATIONS

Annual meeting ISBPE 2021

Online

2021

Senate finance committee - Chile

Online

2020

Annual meeting ELAEE 2019

Buenos Aires, Argentina

2019

Annual meeting AEA 2019

Atlanta, EEUU

2019

Annual meeting USAEE 2018

Washington DC, EEUU

2018

Annual meeting ISBPE 2018

Aurora, EEUU

2018

6th Nobel Lindau meeting in Economic Sciences

Lindau, Alemania

2017

Past Energy Transitions

Esbjerg, Dinamarca

2017

Annual meeting SAEA 2017

Mobile, EEUU

2017

Annual meeting LACEA 2013

Ciudad de México, México

2014

Senate finance committee - Chile

Santiago, Chile

2012

PROFESSIONAL AFFILIATIONS

American Association for the Advancement of Science

2018-2020

United States and International Association for Energy Economists

2017-2020

Royal Economic Society

2017-2018

Agricultural and Applied Economics Association

2016-2018

Latin American and Caribbean Economic Association

2013

AWARDS AND SCHOLARSHIPS

Best student presentation

ISBPE

2018

Graduate International Travel Award

The University of Georgia

2017

Beca Fulbright

2015-P

Fulbright Chile

Becas Chile

2015-P

CONICYT, Gobierno de Chile

Mejor Representante de Valores y Espiritu Universitario

2013

Alumni association, Universidad de Chile

First place

2013

Undergraduate qualifying exams, Universidad de Chile

CERTIFIED COURSES

Advanced certification in statistics with the use of R

2021

Universidad Centroamericana José Simeón Cañas

ONLINE CERTIFIED COURSES

Energy withing environmental constraints

2018

HarvardX (en Coursera)

Energy Subsidy Reform

2017

IMFx (en Coursera)

Our Energy Future

2017

UC San Diego (en Coursera)

CircularX: Circular Economy

2015

Delft University of Technology (en edX)

SKILLS

<i>Idiomas</i>	Español (lengua materna) Inglés (fluído) Francés (basico)
<i>Programas</i>	L ^A T _E X, STATA, R

REFERENCES

Edwin Castellanos - Director

Observatorio Económico Sostenible, Universidad del Valle de Guatemala

ecastell@uvg.edu.gt

John Schramski - Profesor

Facultad de Ingenieria, The University of Georgia

jschrams@uga.edu

Mar Rubio - Profesor

INARBE, Universidad Pública de Pamplona

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