

## **JOSÉ DAVID LÓPEZ-RIVAS**

Ph.D. in Economics

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Development economics group

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### **Education**

Ph.D. in Economics (2020). Los Andes University. Bogotá, Colombia.

M.Sc. in Economics (2019). Los Andes University. Bogotá, Colombia.

M.Sc. in Economics (2013). Pontificia Universidad Javeriana. Bogotá, Colombia.

B.Sc. in Environmental Management (2006). Technological University of Pereira. Pereira, Colombia.

### **Research Interests**

My research intersects behavioral, development, and environmental and resources economics. Currently, my focus is on the interface of the use and management of natural resources and agricultural development at a micro-level analysis. In previous research, I examine pecuniary and non-pecuniary interventions to promote pro-environmental behaviors. In my study, I use experimental, quasi-experimental, and observational methods. I obtained my Ph.D. from Los Andes University in 2020.

### **Dissertation**

Title: Three essays on cooperation and water conservation. Behavior, incentives, and institutions.

- Paper 1: Applying the stick to excessive water use during a weather shock. Heterogeneous effects of an over-price policy in Colombia.
- Paper 2: Spreading the word! Addressing spillover effects of a social comparison campaign on water conservation. A Randomized experiment in Colombia.
- Paper 3: What drives the household's pro-environmental behavior? Social norms and motivations to response to a social comparison campaign.

### **Work in progress**

- More tree better water? Deforestation and the cost of water supply in Colombia. Joint with Juan Camilo Cardenas. 2019. In this paper, we analyze the effects of natural tropical forests of water for human consumption in Colombia. Using a national policy and spatial data of forest cover from 1990-2016, we examine how deforestation rates in watersheds that supply municipalities affect the quality of water and the cost of providing it.
- What evidence exists in the economic valuation of marine and coastal ecosystem services? A systematic review." Joint with Juan Camilo Cardenas. 2019. In this paper, we determine the global average economic values of services provided by marine and

coastal ecosystems. We conduct a systematic literature review of 87 articles from peer-reviewed journals combined with meta-analysis regressions.

- Community-based monitoring of natural resources: social capital and uncertainty. Joint with Juan Camilo Cardenas. 2019. In this paper, we explore the willingness to engage in monitoring the quality of natural resources in rural communities in Colombia. We design and test in the field a "public good" game to analyze the decisions of individuals to contribute part of their time in producing and managing community-based monitoring systems.

### **Early research: published articles and books**

- Estimation of the accuracy of a consumption water-metering system in Colombia. *Entre Ciencia e Ingeniería*. No. 14. With Guerrero, J. (2014)
- Regional strategy for monitoring natural resources. Universidad Tecnológica de Pereira. ISBN 978-958-722-109-1. With Cuervo, D; Sabas, C, Ramírez, A; Valencia, J; Ramírez, A. I; Pulgarin, M & Ramírez, A. (2011)
- Designing a complex financial strategy for monitoring the natural resources in environmental regulatory agencies in Colombia. Universidad Tecnológica de Pereira. ISBN 975-958-722-092-6. With Cuervo, D; Sabas, C. (2010)

### **Teaching**

#### Teaching assistant

- MOOC Water: Abundance and scarcity in Latin America. In Universidad de los Andes. 64 hours. 2018-2.
- Microeconomics. In MA in Applied Economics (MECA). Universidad de los Andes. 64 hours. 2017- 1/ 2018-1.
- Environmental Economics. In MA in Applied Economics (MECA). Universidad de los Andes. 64 hours. In 2017-2.

#### Adjunct teacher

- Economic Instruments for environmental policy. In MA in Environmental Management. Pontificia Universidad Javeriana. 36 hours. 2019-2.
- Biodiversity Conservation Systems. In MA in Conservation. Pontificia Universidad Javeriana. 36 hours. 2019-2.
- Environmental Economics. In Economics Department. Universidad Jorge Tadeo Lozano. Colombia. 64 hours. In 2015-2.
- Water Economics. In MS.c. in Water Resources. In Engineering. Universidad del Quindío. 36 hours. 2015-2.
- Introductory Economics. In Universidad Piloto de Colombia. 64 hours. 2015-1,2015-2, and 20161.
- Natural Resource Economics. In Universidad Piloto de Colombia. 64 hours. 2015-1.
- Social Project Evaluation. In School of Environmental Sciences. Universidad

- Teconológica de Pereira. 1024 hours. From 2010-2 until 2014-1.
- International Finance. In Fundación Universitaria del Área Andina – Pereira. 192 hours. 2014-1.
  - Human Capital. In Economics. Universidad Católica de Pereira. 64 hours. 2013-1.
  - Microeconomics III. Universidad Católica de Pereira. 128 hours. In 2012-1/2012-2.
  - Microeconomics I. Universidad Católica de Pereira. 192 hours. In 2012-1, 2012-2, 2013-1.
  - Introductory Economics. Universidad Católica de Pereira de Pereira. 64 hours. In 2012-1.
  - Introductory Economics. In School of Environmental S. Universidad Tecnológica de Pereira. 64 hours. In 2010-1.

### **Participation in Research**

2018-2020. Researcher. CEDE. Universidad de los Andes. Bogotá, Colombia.

2007-2014. Associate researcher in economic analysis. Water and Sanitation Research Group (GIAS). Universidad Tecnológica de Pereira, Colombia.

### **Working Papers**

Lopez-Rivas, J. Spreading the word! Effects of a social nudge on water conservation. A field experiment in small-urban villages in Colombia. Latin American & Caribbean Environmental Economics Program – LACEEP. <http://www.laceep.org/>

### **Presentation in Conferences**

- “Spreading the word! Effects from a social nudge on water conservation behavior. A randomized field experiment in Colombia.” LACEA-LAMES. Puebla, México. 2019. <http://lacea-lamesmeeting.buap.mx>
- “What drives the pro-environmental behavior? Differences in what people say and do.” XVII Biennial IASC-Conference: In defense of the commons, challenges, innovation and action. Lima, Perú. 2019. <https://www.iasc2019.org>
- “Spreading the word! Effects from a social nudge on water conservation behavior. A randomized field experiment in Colombia.” World Congress of Environmental and Resource Economics -WCERE. Gothenburg, Sweden. 2018. <http://www.eaere-conferences.org/>
- “Stick approach to excessive water use. Do the Group-Size matters? Evidence from a water-fines program in Colombia.” XVI Biennial IASC-Conference: Practicing the Commons, Self-governance, cooperation and institutional change. Utrecht, Holland. 2017. <https://www.iasc2017.org>

### **Grants & Scholarships**

2017. Grantee of Latin American & Caribbean Environmental Economics Program – LACEEP. Research: “Using Social Feedback to promote residential water savings.” <http://www.laceep.org/>