

# José Alfonso Muñoz-Alvarado

## Curriculum Vitae

Department of Econometrics and Empirical Economics  
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### Education

- 2018–present **PhD, Economics**, *Toulouse School of Economics*, France.  
Essays in Applied Econometrics
- 2016–2018 : **MS in Economic Theory and Econometrics**, *Toulouse School of Economics*, France.
- 20011–2014 : **BS in Economics**, *Universidad de Costa Rica*.

### Work Experience

- 2022 **External Consultant** - "Job Postings Data for Skills Analysis" at ELS/SAE/Skills, OECD.
- 2022 **Supervisor** for graduate students at Toulouse School of Economics.
- 2019-2022 **Graduate Teaching Assistant** at Toulouse School of Economics.
- 2015-2016 **Undergraduate Teaching Assistant** at *Universidad de Costa Rica*.

### Articles

#### Working Papers

(JMP) *Power to the teens? A model of parents' and teens' collective labor supply*

**Abstract:** Teens make life-changing decisions while constrained by the needs and resources of the households they grow up in. In general, household behavior models consider decisions made alone or by parents while ignoring joint household decision-making. Using the Costa Rican *Encuesta Nacional de Hogares* from 2011 to 2019 and a conditional cash transfer program, I present evidence that teens and parents jointly allocate time and income. First, I provide reduced-form evidence using a marginal treatment effect framework that the gender of the teen influences how households respond to the transfer. Second, I propose a collective model of household decisions and show that sons cooperatively bargain with their parents while daughters do not. These findings highlight significant differences in household decision-making, demonstrating that the gender of the target must be considered for public policy effectiveness.

*You are the father! Effects of Costa Rica's Responsible Paternity Law on families*

**Abstract:** Costa Rica's Responsible Paternity Law made it easier for unmarried women to declare the father of their newborn child and thus obtain child monetary support. This paper assesses the impact of the law on household decisions. I estimate the law's effects using the law as a natural experiment and a fuzzy differences-in-differences setting. I find that the law had a negative impact on male labor participation as well as female and male weekly labor supply. Using a collective household model with matching, I argue that the law strengthens women's bargaining power in household decision-making. This has two consequences: a couple selection effect and an intra-household allocation effect. Structural estimates show that both effects exist in households. These findings demonstrate how child-related laws help us better understand household formation and decision-making.

#### In Prep

*Attrition and time-variant unobserved heterogeneity in an education-labor dynamic discrete choice model* (joint with F. Poinas)

**Abstract:** Discrete choice dynamic programming (DCDP) models allow to estimate education-labor decisions with individual heterogeneity that cannot be seen on the data. The most common way is to assume that this

unobserved heterogeneity in a time-invariant but, some results point out that, in ages from 16 to 30 years old, life experiences vary this term. We present a DCDP model for educational and labor choices allowing for time-variant unobserved heterogeneity to include the effect of life decisions and life events that changes individuals' unobserved characteristics. With the model it is then possible to estimate counterfactuals for public policies like a raise in tuition fees and see the potential differences compared to a time-invariant setting. The data we use is *Génération 98* which has a severe problem of attrition. We also present a selection mechanism on observables and unobservables to incorporate the decisions and wages of the individuals made before the decision to leave the sample. Correcting for attrition bias has not been done before in the DCDP literature, even when most of the data sets used have this problem.

#### Published pre-PhD

**Muñoz-Alvarado, José Alfonso** (2016). *Methodological Approximation to Evaluate Professor's Effectiveness: Study of Teachers of the Chair XE0156 University of Costa Rica*. *Revista de Ciencias Económicas*, 34(2).

**Muñoz-Alvarado, José Alfonso** (2016). *AVANCEMOS: Effects of school dropout in the Home of Beneficiaries*. *Revista Electrónica Educare*, 20(1), 53-74.

#### Fellowships & Awards

- 2022 Recipient of **Student Travel Grant** to attend the 8th Annual Conference of the **International Association of Applied Econometrics** in London, England.
- 2022 Recipient of **Mobility Grant** of Université Toulouse Capitole 1 for a exchange at **Solvay Brussels School Economics & Management**, Université Libre de Bruxelles.
- 2016-2018 Awarded a two-years **Eiffel Scholarship** from Campus France.

#### Presentations

- 10/2022 **CSQIEP Seminar on Economics of LGBTQ+ Individuals**, virtual.
- 06/2022 **8th Annual Conference of the International Association of Applied Econometrics** in London, England.
- 05/2022 **Household Economics Gathering** in Leuven, Belgium.
- 04/2020 **Economics Seminar of Escuela de Economía de la Universidad de Costa Rica**, virtual.
- 10/2021 **LACEA/LAMES Annual Conference**, virtual.
- 09/2021 **ENTER Jamboree Annual Conference**, virtual.
- 08/2021 **Dynamic Structural Econometrics Conference on Household decision making and human capital in life-cycle models** in Bonn, Germany.
- 12/2020 **Economics Seminar of Escuela de Economía de la Universidad de Costa Rica** in San José, Costa Rica.

#### Languages

Spanish (native), English (fluent), French (intermediate)

#### Skills

Computer Stata, R, Julia, Latex, Microsoft Office

#### Teaching Assistantship

- Winter, 2019-2022 **Program Evaluation for graduate students, including coordinator duties**, Toulouse School of Economics.
- Winter, 2022 **Applied Econometrics**, supervisor of annual projects, Toulouse School of Economics.
- Fall, 2019 **R Programming**, Toulouse School of Economics.
- 2015-2016 **Microeconomics 1**, Universidad de Costa Rica.

2015-2016 **Data for economists**, *Universidad de Costa Rica*.

2015-2016 **Introduction to Economists for non-economists**, *including coordinator duties*, *Universidad de Costa Rica*.

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## Referees

### **Thierry Magnac**

*Professor*

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### **François Poinas**

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### **Olivier de Groote**

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