

# Guilherme Pereira de Freitas

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California Institute of Technology  
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## PROFESSIONAL EXPERIENCE

- Market Economist at OpenX. Pasadena, April 29th, 2013 – Present.  
*Analyzed large quantities of data to assess buyer behavior in the OpenX Ad Exchange and inform the design new auction rules. Started a research program focused on the economics of markets for online display advertising.*
- External Consultant at OpenX. Pasadena, Feb 5th, 2013 – April 28th, 2013.  
*Assisted the analysis and design of real-time auctions for online ad display advertising.*

## EDUCATION

- Ph.D. in Economics, California Institute of Technology (Caltech). March 2013
- M.Sc. in Mathematical Economics, National Institute of Pure and Applied Mathematics - IMPA (Rio de Janeiro, Brazil), July 2007
- B.A. in Economics, University of Brasília (Brasília, Brazil), July 2004

## RESEARCH INTERESTS

- Mechanism/ Auction/ Market Design, Computational Economics, Environmental Economics

## WORKING PAPERS

- Combinatorial Assignment Under Dichotomous Preferences
- Monitoring Costs and the Management of Common-Pool-Resources

## WORK IN PROGRESS

- Vessel Buyback Auctions (with John O. Ledyard)
- Voting with Common Values (with Matias Iaryczower and Matthew Shum)

## RESEARCH ASSISTANCE

- Research Assistant to Professor John Ledyard, Caltech (2008-Present)
- Research Assistant to Professor Matthew Shum, Caltech (2009)
- Research Assistant to Professor Federico Echenique, Caltech (2008)
- Research Assistant to Professor Maurício Bugarin, UnB (2004)

## TEACHING EXPERIENCE

- Instructor: Mathematical Methods (Graduate), Caltech 2009, 2010.  
*Formulated a syllabus, lecture notes, problems sets, computer activities, lectured and gave feedback to students*
- Teaching Assistant: Mechanism Design (Graduate), Caltech, 2011; Algorithmic Game Theory (Graduate), Caltech 2010; Microeconomics (Graduate), IMPA, 2007; Power Systems Economics (Graduate/Undergraduate), Caltech 2011; Environmental Economics (Undergraduate), Caltech 2012; Introduction to Economics (Undergraduate), Caltech, 2012; Calculus 1 and 3 (Undergraduate), UnB, 2001, 2003, 2004; Industrial Organization (Undergraduate), UnB, 2002.

## HONORS AND AWARDS

- SISL fellowship, Caltech (2007-2012)
- CNPq Scholarship, IMPA (2005-2007)
- CNPq Scholarship, UnB (2001-2003)

## INVITED TALKS, CONFERENCE PRESENTATIONS AND SUMMER SCHOOLS

- International Conference on Game Theory. Stony Brook, 2006, 2008
- Chicago-Argonne Initiative for Computational Economics (ICE). Chicago, 2009

## REFEREEING

- B.E. Journal of Theoretical Economics

## LANGUAGES AND COMPUTER SKILLS

- Portuguese (native); English (fluent); Spanish (very good).
- Python, Mathematica, AMPL, R, Matlab, C, SQL.

## REFERENCES

- Professor John O. Ledyard (Chair)  
*California Institute of Technology, [jledyard@hss.caltech.edu](mailto:jledyard@hss.caltech.edu), +1 626-395-8482*
- Professor Matthew Shum  
*California Institute of Technology, [mshum@hss.caltech.edu](mailto:mshum@hss.caltech.edu), +1 626-395-4022*
- Professor Jean-Laurent Rosenthal  
*California Institute of Technology, [rosentha@hss.caltech.edu](mailto:rosentha@hss.caltech.edu), +1 626-395-4058*
- Professor Federico Echenique  
*California Institute of Technology, [fede@hss.caltech.edu](mailto:fede@hss.caltech.edu), +1 626-395-4273*