

Columbia University, Department of Economics  
420 West 118th Street  
New York, NY 10027, USA

[duarte.goncalves@columbia.edu](mailto:duarte.goncalves@columbia.edu)  
[duartegoncalves.com](http://duartegoncalves.com)  
+1 917-254-2109

PLACEMENT CO-CHAIRS  
Don Davis

[drd28@columbia.edu](mailto:drd28@columbia.edu)

Suresh Naidu

[sn2430@columbia.edu](mailto:sn2430@columbia.edu)

PLACEMENT ADMINISTRATOR  
Amy Devine

[aed2152@columbia.edu](mailto:aed2152@columbia.edu), +1 212-854-6881

## RESEARCH INTERESTS

Microeconomic Theory, Behavioral and Experimental Economics, Information Economics

## REFERENCES

### Yeon-Koo Che

Kelvin J. Lancaster Professor of  
Economic Theory  
Columbia University  
+1 212-854-8276  
[yc2271@columbia.edu](mailto:yc2271@columbia.edu)

### Navin Kartik

Professor  
Columbia University  
+1 212-854-3926  
[nkartik@columbia.edu](mailto:nkartik@columbia.edu)

### Mark Dean

Associate Professor  
Columbia University  
+1 212-854-3669  
[mark.dean@columbia.edu](mailto:mark.dean@columbia.edu)

## EDUCATION

Ph.D. in Economics, Columbia University	2016-21
<i>en route</i> : M.A. in Economics (2016-17), M.Phil. in Economics (2017-19)	(expected)
M.Sc. in Economics, ISCTE - University Institute of Lisbon	2014-16
B.Sc. in Economics, ISCTE - University Institute of Lisbon	2011-14
Dipl. Adv. Studies in Moral and Political Philosophy, NOVA University of Lisbon	2012-13
B.Sc. in History, NOVA University of Lisbon	2008-11

## JOB MARKET PAPER

### Sequential Sampling and Equilibrium (2020)

*Abstract*: I propose an equilibrium solution concept based on players sequentially sampling to resolve strategic uncertainty — uncertainty with respect to the distribution of gameplay of the opponents. Players optimally accumulate empirical information on their opponents' distribution of actions at a cost. Equilibrium imposes a consistency condition on the overall distribution of gameplay. The solution concept makes predictions on the joint distribution of players' choices, beliefs and response times, and generates stochastic choice through the randomness inherent to sampling, without relying on indifference or choice mistakes. It rationalizes well-known deviations of gameplay from Nash equilibrium as well as patterns in process data such as decision times.

## RESEARCH PAPERS AND PRESENTATIONS

### OTHER WORKING PAPERS

#### **Statistical Mechanism Design: Robust Pricing and Reliable Projections** (2020)

with Bruno Furtado

*Short Abstract:* A mechanism designer with a sample of consumers' types can conduct valid inference on profit and regret and use our toolkit to compare mechanisms.

#### **The Effect of Incentives on Choices and Beliefs in Games. An Experiment** (2020)

with Teresa Esteban-Casanelles

*Short Abstract:* The level of incentives affects gameplay and beliefs through both choice mistakes and costly attention.

#### **Diagonal Games: A Tool for Experiments and Theory** (2020)

*Short Abstract:* Diagonal games are a useful benchmark to study cognitive limitations in strategic settings, both for exploring predictions of theoretical models and for experimental implementations.

#### **Recommenders' Originals: Integrated Recommender Systems and Vertical Foreclosure** (2020)

with Guy Aridor

*Short Abstract:* The ability of platforms to bias their recommendations can lead to vertical foreclosure, but separating recommendation and production is not always welfare improving.

#### **Retractions** (2020)

with Jonathan Libgober and Jack Willis

*Short Abstract:* The data shows retractions are typically treated as less informative compared to new information, but also lead to better accommodating new information that follows.

### WORK IN PROGRESS

#### **The Dynamics of Conflict**

*Short Abstract:* When agents optimally commit resources over time in order to disturb the status quo, greater inequality generates greater instability.

#### **Revising Beliefs on Belief Updating: Theory and Experimental Evidence**

with Arthur Prat-Carrabin

*Short Abstract:* Individuals update beliefs as if sampling from memory, a model that rationalizes the observed patterns of over- and under-updating.

### OTHER PUBLICATIONS

#### **Trends in Public Finance: Insights from a New Detailed Dataset** (2016)

with Debra Bloch, Jean-Marc Fournier and Álvaro Pina  
OECD Economics Department Working Papers 1345

*Short Abstract:* The OECD Public Finance Dataset is cross-country panel dataset with key variables on public finance intended to promote research on the relation between fiscal policy, inequality and long-run growth.

## CONFERENCE PRESENTATIONS

**2021:** Games 2020 (scheduled)

**2020:** Spanish Economic Association Symposium (scheduled)

## INVITED SEMINAR PRESENTATIONS

**2019:** NYU Microeconomics Student Lunch; SWEET-Wharton: Student Workshop in Experimental Economic Techniques

**2018:** PSE Summer School Bounded Rationality Workshop

## TEACHING EXPERIENCE

### INSTRUCTOR

#### **FCSH/NOVA University of Lisbon**

Democracy and Collective Choice (Summer school)

Summer 2014

### TEACHING FELLOW

#### **Columbia University**

Microeconomic Analysis I (Ph.D. 1st Year course)

Fall 2019

Decision Theory, General Equilibrium and Game Theory.

Instructors: Mark Dean and Evan Sadler

Microeconomic Analysis II (Ph.D. 1st Year course)

Spring 2018

Game Theory and Contract Theory.

Instructors: Yeon-Koo Che and William Bentley MacLeod

Game Theory (Undergraduate)

Fall 2018

Instructor: Prajit K. Dutta

Principles of Economics (Undergraduate)

Fall 2017, Spring 2018

Instructor: Sunil Gulati

#### **ISCTE - University Institute of Lisbon**

Microeconomics I (Undergraduate)

Spring 2015

Instructor: Nádia Simões

Microeconomics II (Undergraduate)

Fall 2014

Instructor: Henrique Monteiro

## RESEARCH GRANTS & ACADEMIC AWARDS

### RESEARCH GRANTS & FELLOWSHIPS

Doctoral Dissertation Research Improvement Grant # 1949395 National Science Foundation; \$28,026	2020
Research Grant Program for Economic Research, Columbia University; \$17,044	2020
Dissertation Fellowship Department of Economics. Columbia University	2020
Summer Research Fellowship Program for Economic Research, Columbia University	2019, 2020
CELSS Dissertation Grant Columbia University Experimental Laboratory for Social Sciences; \$3,000	2019
CELSS Research Grant Columbia University Experimental Laboratory for Social Sciences; \$1,000	2019

### AWARDS & HONOURS

Best Teaching Assistant (Ph.D.) Association of Graduate Students in Economics, Columbia University	2020
Ralph Erdman Holben Fund Fellowship (Ph.D. in Economics) Columbia University	2019-20
Caswell L. Johnson Columbia Scholarship (Ph.D. in Economics) Columbia University	2018-19
Dean's Fellow (Ph.D. in Economics) Columbia University	2016-18
Best 1st Year Student Award (M.Sc. in Economics) ISCTE - University Institute of Lisbon	2015
Bank of Portugal Best Student Award (B.Sc. in Economics) Bank of Portugal	2015
Best Student Award (B.Sc. in Economics) ISCTE - University Institute of Lisbon	2015
Academic Excellence Award (B.Sc. in Economics) ISCTE - University Institute of Lisbon	2012
Merit & Excellence Best Student Award (B.Sc. in History) FCSH/NOVA University of Lisbon	2012
Merit Student Award & Scholarship (B.Sc. in History) NOVA University of Lisbon	2010

## PROFESSIONAL SERVICE

### REFEREEING

Games and Economic Behavior

### ORGANIZING

Student Organizer. Micro Theory Colloquium. Columbia University	2019-20
Organizer. Micro Theory Summer Reading Group. Columbia University	2019
Organizing Committee. Young Economists Symposium. Columbia University	2019

## SOFTWARE DEVELOPED

GETDATA: Stata module to import SDMX data from several providers <i>Boston College Department of Economics. Statistical Software Components S458093</i>	2015
XTEUROSTAT: Stata module to import data from Eurostat in panel data structure <i>Boston College Department of Economics. Statistical Software Components S458089</i>	2015

## PERSONAL INFORMATION

*Full name:* Duarte Gonçalves Dias da Silva

*Citizenship:* Portuguese

*Birth Date:* August 23<sup>rd</sup>, 1990

### LANGUAGES

Portuguese (Native)	English (Fluent)	Spanish (Very Good)
French (Good)	German (Elementary)	

### PROGRAMMING SKILLS

Python, MATLAB, R, Wolfram Mathematica, Stata, MS Office Excel, Eviews, SPSS