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## RESEARCH INTERESTS

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Microeconomic Theory, Behavioral and Experimental Economics, Information Economics

## ACADEMIC EMPLOYMENT

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University College London, London, United Kingdom  
Lecturer (Assistant Professor), Department of Economics 2021-present

## EDUCATION

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Ph.D. in Economics, Columbia University 2016-21  
*en route*: M.A. in Economics (2016-17), M.Phil. in Economics (2017-19)  
Dissertation Committee: Yeon-Koo Che (advisor), Navin Kartik (chair)  
Mark Dean, Kfir Eliaz, Elliot Lipnowski

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

## RESEARCH PAPERS

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### PUBLICATIONS

- The Dynamics of Instability**  
with César Barilla  
*Theoretical Economics* (2024), 19 (1): 365–405  
*Short Abstract*: Even in absence of short-term gains, groups with diametrically opposed interests want to generate instability to advance their agendas.
- Recommenders' Originals: The Welfare Effects of the Dual Role of Platforms as Producers and Recommender Systems**  
with Guy Aridor  
*International Journal of Industrial Organization* (2022), 83: 1–28  
*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.

### WORKING PAPERS

- Sequential Sampling Equilibrium**  
Reject and Resubmit at *American Economic Review*  
*Short Abstract*: A new equilibrium solution concept where players sequentially sample to resolve strategic

uncertainty over their opponents' distribution of actions delivers predictions on the joint distribution of actions, beliefs, and decision times.

4. **Incentives and Strategic Behaviour: An Experiment**

with Teresa Esteban-Casanelles

Submitted

*Short Abstract:* The incentive level in games affects choices and beliefs about the opponent by inducing greater cognitive effort. (An earlier version circulated with the title “The Effect of Incentives on Choices and Beliefs in Games: An Experiment”)

5. **Retractions: Updating about Complex Information**

with Jonathan Libgober and Jack Willis

Conditionally accepted at *Review of Economic Studies*

*Short Abstract:* Retractions — the provision of indirect information — are treated as more complex than equivalent direct information and subjects infer less from them. (An earlier version circulated as a NBER working paper with the title “Learning versus Unlearning: An Experiment on Retractions”)

6. **The Informational Role of Online Recommendations: Evidence from a Field Experiment on MovieLens**

with Guy Aridor, Ruoyan Kong, Daniel Kluver, and Joseph Konstan

Submitted

*Short Abstract:* A longitudinal randomised controlled trial on a movie recommendation platform identifies an informational channel of recommendations on consumption by examining how recommendations affect consumers' beliefs and how these determine consumption choices. (An earlier version circulated with the title “The Economics of Recommender Systems: Evidence from a Field Experiment on MovieLens”)

7. **Quantal Response Equilibrium with a Continuum of Types: Characterization and Nonparametric Identification**

with Evan Friedman

Resubmitted to *Games and Economic Behavior* (2nd round)

*Short Abstract:* We provide a complete characterisation of the set of QRE in a class of binary-action games with a continuum of types, including global games, which we leverage to develop nonparametric tests.

8. **Speed, Accuracy, and Complexity**

Revising for resubmission to *Econometrica*

*Short Abstract:* In order to infer problem complexity, look not at time, but rather at how choices are affected when incentives change.

9. **Statistical Mechanism Design: Robust Pricing, Estimation, and Inference**

with Bruno A. Furtado

Submitted

*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.

**OTHER PUBLICATIONS**

10. **The MovieLens Beliefs Dataset: Collecting Pre-Choice Data for Online Recommender Systems**

(paper in conference proceedings)

with Guy Aridor, Ruoyan Kong, Daniel Kluver, and Joseph Konstan

*Proceedings of the 18th ACM Conference on Recommender Systems (2024): 14–18*

*Short Abstract:* Beliefs about un-consumed goods are important data to develop useful recommendation systems; this paper introduces a method on how to collect these data and discusses its implementation on the MovieLens platform, which resulted in a rich dataset that combines user ratings, beliefs, and observed recommendations. The dataset can be found at [https://grouplens.org/datasets/movielens/ml\\_belief\\_2024/](https://grouplens.org/datasets/movielens/ml_belief_2024/).

11. **Retro TIMing: A multicentric retrospective analysis of immunotherapy timing in metastatic melanoma**  
with Lisa Gonçalves, Teresa Esteban-Casanelles, Laura Pratas Guerra, Maria B. Menezes, Vanessa Duarte Branco, Joana Alves Luís, Filipa Simões, João Gramaça, Inês S. Pinho, Tiago Barroso, Vanessa Patel, Miguel Esperança-Martins, Raquel Lopes Bráas, Rita Teixeira de Sousa, André Mansinho, Sofia Torres, and Luís da Costa  
*Journal of Clinical Oncology* (2024), 42(12 Suppl): 9542  
2024 ASCO Annual Meeting I conference proceedings
12. **The Economics of Recommender Systems** (abstract in conference proceedings)  
with Guy Aridor, Ruoyan Kong, Daniel Kluver, and Joseph Konstan  
*Proceedings of the 24th ACM Conference on Economics and Computation* (2023): 117  
*Short Abstract:* A longitudinal randomised controlled trial on a movie recommendation platform shows that recommendations (i) increase consumption, (ii) affect consumers' beliefs which in turn guide consumption decisions, and (iii) induce further information acquisition.
13. **Immunotherapy around the clock: Impact on stage IV melanoma**  
with Lisa Gonçalves, Teresa Esteban-Casanelles, Tiago Barroso, Inês Soares de Pinho, Raquel Lopes-Brás, Miguel Esperança-Martins, Vanessa Patel, Sofia Torres, Rita Teixeira de Sousa, André Mansinho, and Luís Costa  
*Cells* (2023), 12(16): 1–16  
*Short Abstract:* Immunotherapy effectiveness on overall-survival for stage IV melanoma is hampered when infusions take place later in the day.
14. **Immunotherapy around the clock: Impact on stage IV melanoma** (abstract in conference proceedings)  
with Lisa Gonçalves, Teresa Esteban-Casanelles, Isabel Soares de Pinho, Tiago Barroso, Vanessa Patel, Miguel Esperança-Martins, Raquel Lopes-Brás, Soraia Lobo-Martins, Patrícia Semedo, Carlos Moreira, Rita Teixeira Sousa, André Mansinho, and Luís da Costa  
*Immuno-Oncology and Technology* (2022), 16(S1): 21  
ESMO Immuno-Oncology conference proceedings
15. **Deconstructing the Filter Bubble: User Decision-Making and Recommender Systems**  
with Guy Aridor and Shan Sikdar  
*Proceedings of the 14th ACM Conference on Recommender Systems* (2020): 82–91  
*Short Abstract:* Learning spillovers can generate filter bubbles and recommender systems may mitigate this issue, but at the expense of diversity in consumption across individuals.
16. **Trends in Public Finance: Insights from a New Detailed Dataset**  
with Debra Bloch, Jean-Marc Fournier and Álvaro Pina  
*OECD Economics Department Working Papers* (2016), 1345: 1–53  
*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.

## WORK IN PROGRESS

### 1. **Revealing Complexity**

with Salvatore Nunnari and Julen Zarate-Pina

*Short Abstract:* We leverage the fact that minor changes to relative incentives exert a disproportionately larger impact on choices in complex problems than in simpler ones to investigate how different features of the decision-making environment contribute to the complexity of choice across various domains of interest.

### 2. **Strategic Thinking and Unexpected Events: An Experiment on Off-Path Beliefs**

with Terri Kneeland and Andreas Ziegler

*Short Abstract:* We investigate how people update their beliefs when faced with unexpected behaviour in strategic interactions by introducing a novel experimental paradigm that allows us to unambiguously identify (i) the evolution of beliefs regarding others based on their past choices, (ii) the influence of features of the strategic environment on belief updating, and (iii) the anticipation and strategic exploitation of others' belief revisions.

### 3. **Identifying Strategic Complexity**

with Terri Kneeland and Julen Zarate-Pina

*Short Abstract:* We disentangle strategic complexity from decision complexity and investigate the relative contribution of each towards deviations from benchmark models, as well as how strategic complexity impacts individuals' the mode of reasoning.

### 4. **Endogenous Strategic Uncertainty**

with Teresa Esteban-Casanelles and Evan Friedman

*Short Abstract:* We answer essential questions on the nature and importance of strategic uncertainty, its dependence on game features, and its relation to best-response rates and decision time.

### 5. **Fact-Checking**

with Jonathan Libgober and Jack Willis

*Short Abstract:* Failures of contingent reasoning allow for manipulability of beliefs by selecting different fact-checking policies.

## SHORT-TERM RESEARCH VISITS

September 2024: Princeton University

## CONFERENCE AND SEMINAR PRESENTATIONS

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including scheduled

**2025:** Stanford University; LSE Behavioural Political Economy Workshop; University of Cambridge; University of Zurich and ETH Zurich; Maastricht University; Michigan State University

**2024:** Berlin Behavioural Economics Group (Humboldt University of Berlin, the Berlin Social Science Center (WZB), Technical University of Berlin, Hertie School, ESMT, and University of Potsdam); Ludwig Maximilian University of Munich; HEC Paris; University of Vienna; University of Surrey; Princeton University; University of Pennsylvania; Columbia University; Annual Conference of the Association for Mathematics Applied to Social and Economic Sciences; European Summer Meeting of the Econometric Society (Rotterdam); Annual Meeting of the Society for Mathematical Psychology; Barcelona Summer Forum; EAYE Annual Meeting; University of Essex; Royal Holloway University of London Economic

Theory Conference; Caltech Institute of Technology; University of California - San Diego; University of California - Santa Barbara; University of Southern California; University of Glasgow

**2023:** Digital Economics Workshop (Cambridge); University of British Columbia; Workshop on Belief Updating in Economics, Neuroscience, and Machine Learning (UCL); Lancaster Game Theory Conference; UCL Economics Research Day; UCL Behavioural Data Science; Junior Workshop in Economic Theory (Bonn); University of Bonn (briq); UCL-LSE Economic Theory Workshop; Economic Science Association Conference (Exeter); European Summer Meeting of the Econometric Society (Barcelona); Society for the Advancement of Economic Theory (Paris); EARIE Annual Conference (LUISS); Aalto University; Barcelona School of Economics Summer Forum; University of Bristol; University of Nottingham; Cornell University; Southeast Theory Festival (Oxford); NBER Workshop of Economics of Digitization; London School of Economics

**2022:** Paris School of Economics; HKBU-NTU-Osaka-Kyoto-Sinica; Virtual Quantitative Marketing Seminar (panelist); University of Oxford; Bounded Rationality: Theory and Experiments (TAU); Southern Economic Association Annual Meeting; Warwick Icebreaking Workshop; City Economic Theory Conference (City, London); Bounded Rationality in Choice Conference (CERGE-EI); Spring Meeting of Young Economists; Southeast Theory Festival (Oxford)

**2021:** University College London; CERGE-EI; Tel Aviv University; Caltech; University of Surrey; University of Essex; Seminars in Economic Theory: *Not The 2021 Theory Market Series*; University of Pennsylvania; Royal Economic Society Annual Conference; XXIX European Workshop on Economic Theory; North American Summer Meeting of the Econometric Society; Spring Meeting of Young Economists; Games 2020/1; European Summer Meeting of the Econometric Society

**2020:** European Winter Meetings of the Econometric Society; Spanish Economic Association Symposium

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

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

## **TEACHING EXPERIENCE**

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### **INSTRUCTOR**

#### **University College London**

Microeconomics (Ph.D.; core course): since 2021

Topics in Economic Theory (Ph.D.; field course): since 2021

Experimental Economics (Ph.D.; field course): since 2021

Advanced Microeconomic Theory (M.Sc.): 2021-22, 2022-23

### **MINI-COURSES AND GUEST LECTURES**

**2024:** Experimental Economics (Ph.D.), Princeton University

**2014:** Democracy and Collective Choice (Summer school), FCSH/NOVA University of Lisbon

### **TEACHING FELLOW**

#### **Columbia University**

Microeconomic Analysis I (Ph.D.): Fall 2019

Microeconomic Analysis II (Ph.D.): Spring 2018

Game Theory (Undergraduate): Fall 2018

Principles of Economics (Undergraduate): Fall 2017, Spring 2018, Spring 2021

### **ISCTE – University Institute of Lisbon**

Microeconomics I (Undergraduate): 2015

Microeconomics II (Undergraduate): 2014

## **RESEARCH GRANTS & ACADEMIC AWARDS**

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### **RESEARCH GRANTS & FELLOWSHIPS**

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

### **AWARDS & HONOURS**

1. Best Short Paper Award 2024  
18th ACM Recommender Systems Conference
2. JEEA Excellence in Refereeing Award 2024  
Journal of the European Economic Association
3. Best Paper Award 2021  
Spring Meeting of Young Economists
4. Padma Desai Award for Best Dissertation 2021  
Department of Economics, Columbia University
5. Best Teaching Assistant (Ph.D.) 2020  
Department of Economics, Columbia University
6. Ralph Erdman Holben Fund Fellowship (Ph.D. in Economics) 2019-20  
Columbia University
7. Caswell L. Johnson Columbia Scholarship (Ph.D. in Economics) 2018-19  
Columbia University
8. Dean's Fellow (Ph.D. in Economics) 2016-18  
Columbia University
9. Best 1st Year Student Award (M.Sc. in Economics) 2015  
ISCTE – University Institute of Lisbon
10. Bank of Portugal Best Student Award (B.Sc. in Economics) 2014  
Bank of Portugal

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| 11. Best Student Award (B.Sc. in Economics)<br>ISCTE – University Institute of Lisbon          | 2014 |
| 12. Academic Excellence Award (B.Sc. in Economics)<br>ISCTE – University Institute of Lisbon   | 2012 |
| 13. Merit & Excellence Best Student Award (B.Sc. in History)<br>FCSH/NOVA University of Lisbon | 2012 |
| 14. Merit Student Award & Scholarship (B.Sc. in History)<br>NOVA University of Lisbon          | 2010 |

## **PROFESSIONAL SERVICE**

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### **REFEREEING**

**Journals:** American Economic Review; Econometrica; Review of Economic Studies; American Economic Review Insights; Journal of the European Economic Association; Theoretical Economics; Journal of Economic Theory; Games and Economic Behavior; Quantitative Economics; Management Science; American Economic Journal: Microeconomics; Journal of Econometrics; The Economic Journal; Journal of Economic Behavior and Organization; European Economic Review;

**Conferences:** Econometric Society Meeting; European Economic Association Meeting European Association of Young Economists Annual Meeting;

**Grants:** The Royal Society; The British Academy

### **DEPARTMENT SERVICE**

Director. UCL ELFE – Experimental Laboratory for Finance and Economics	2024-present
Co-Director. UCL THEBES – Centre for Theoretical and Behavioural Economics	2023-present
Ethics Committee / Research Governance. University College London, Economics	2022-present
Co-Organiser. Economic Theory/Behavioural Seminar. University College London	2021-present
Junior Hiring – Theory Lead. University College London, Economics	2023-24
PhD Admissions. University College London, Economics	2023-24
Co-Organiser. Theory/Experimental Brownbag Seminar. University College London	2021-22
Co-Organiser. Micro Theory Summer Reading Group. University College London	2021
Student Organiser. Micro Theory Colloquium. Columbia University	2019-20
Organiser. Micro Theory Summer Reading Group. Columbia University	2019

### **ASSOCIATIONS**

Co-President. European Association of Young Economists	2022-present
Co-Founder. UCL Centre for Theoretical and Behavioural Economics	2023
Co-Founder. UCL Centre for Behavioural Data Science	2023
Young Economists Symposium Columbia University. Organising Committee	2019

### **CONFERENCE ORGANISATION**

Econometric Society European Summer Meeting. Programme Committee for Economic Theory	2024
EAYE Annual Meeting. Programme Committee	2024

(Spring) Meeting of Young Economists. Programme Committee	2022, 23
Annual Meeting of The Portuguese Economic Journal. Programme Committee	2023
Econometric Society European Summer Meeting. Programme Committee for Behavioural & Experimental 2022	
Young Economists Symposium. Organising Committee	2019

## SOFTWARE

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### PROGRAMMING SKILLS

Python, Wolfram Mathematica, Stata, Django/oTree, MATLAB, R, MS Office Excel

### 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

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*Full name:* Duarte Gonçalves Dias da Silva

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

### LANGUAGES

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