

Felipe Maciel Cardoso | CV

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Education

University of Zaragoza

PhD Candidate in Physics

Advisor: Prof. Yamir Moreno

Thesis: Strategic and Selfless interactions: A study of human behaviour

Zaragoza, Spain

2017 - 2020 (expected)

University of Campinas

MSc in Computer Science

Advisor: Prof. André Santanchè

Thesis: Topical Homophily in an Online Social Network

Campinas, Brazil

2014 - 2016

University of Campinas

Bachelor of Computer Science

Campinas, Brazil

2008 - 2012

Exchanges

ISI Foundation

Institute for Scientific Interchange

Turin, Italy

06/2019 – 07/2019

ISI Foundation

Institute for Scientific Interchange

Turin, Italy

06/2018 – 07/2018

University of Zaragoza

Six months exchange at the COSNET Lab.

Zaragoza, Spain

09/2015–02/2016

Publications

2020 M. Jusup, **F. Maciel-Cardoso**, C. Gracia-Lázaro, C. Liu, Z. Wang and Y. Moreno, "Behavioural patterns behind the demise of the commons across different cultures", *Royal Society Open Science*, DOI: doi.org/10.1098/rsos.201026

2020 **F. Maciel Cardoso**, C. Gracia-Lázaro, F. Moisan, S. Goyal, A. Sánchez and Y. Moreno, "Effect of network topology and node centrality on trading", *Scientific Reports*, DOI:doi.org/10.1038/s41598-020-68094-z

2020 L. De Amicis, S. Binenti, **F. Maciel Cardoso**, C. Gracia-Lázaro, A. Sánchez and Y. Moreno, "Understanding drivers when investing for impact: an experimental study", *Palgrave Communications*, DOI: doi.org/10.1057/s41599-020-0447-y

2020 L. Marengo, H.A. Carmona, **F. Maciel Cardoso**, J.S. Andrade Jr, C.L. Cesar, "Time evolution of the behaviour of Brazilian legislative Representatives using a complex network approach", *PLoS ONE*, DOI: doi.org/10.1371/journal.pone.0226504

2019 F. Maciel Cardoso, S. Meloni, A. Santanche, Y. Moreno, "Topical Alignment in Online Social

Papers under review & in preparation

- **F. Maciel Cardoso**, S. Meloni, C. Gracia-Lázaro, A. Antonioni, José A. Cuesta, A. Sánchez, Y. Moreno, "Framing in multiple public goods games and donation to charities".
- **F. Maciel Cardoso**, C. Gracia-Lázaro, Y. Moreno, "The selection of heuristics and the evolution of strategies".
- H. Ferraz de Arruda, **F. Maciel Cardoso**, G. Ferraz de Arruda, A.R. Hernández, L. da F. Costa, and Y. Moreno, "How social network algorithms can influence opinion polarization".
- **F. Maciel Cardoso**, M. Jusup, C. Gracia-Lázaro, Z. Wang, A. Sánchez, and Y. Moreno, "Collective-risk social dilemma between two countries: differentiated responsibilities and bias".
- **F. Maciel Cardoso**, C. Gracia-Lázaro, A.R. Hernández, M. Floria, Y. Moreno, "The evolution of non-kin societies by cultural group selection".

Talks

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| COMSOTEC20 <i>6th Annual Workshop on Complex Sociotechnical Systems</i> The selection of heuristics and the evolution of cooperation | Burgos, Spain 2020 |
| ECREEW <i>Early Career Researchers in Experimental Economics Workshop</i> Indirect donations promote contributions to public goods | Santiago de Compostela, Spain 2019 |
| CCS19 <i>Conference on Complex Systems</i> Trading in Complex Networks | NTU University, Singapore 2019 |
| BIFI 19 <i>BIFI IX National Conference 2019</i> Trading in Networks - Topology and Prices | Zaragoza, Spain 2019 |
| CCS18 <i>Conference of Complex Systems</i> Universal behavioural patterns behind the demise of the commons | Thessaloniki, Greece 2018 |
| COMSOTEC18 <i>4th Annual Workshop on Complex Sociotechnical Systems</i> Trading in Networks: Efficiency and Topology | Zaragoza, España 2018 |

Poster

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| COSTNET ECT <i>COSTNET: Early Career Training Event</i> Trading in Complex Networks | Munich, Germany 2019 |
| BIFI18 <i>BIFI International Conference on Complexity, Networks and Collective Behavior</i> Topical homophily in online social systems | Zaragoza, Spain 2018 |

COSTNET17*Statistical Network Science*

Topical homophily in online social systems

Mallorca, Spain

2017

Schools Attended

SEMSTAT17*Statistical Network Science***Eindhoven, Netherlands**

2017

NetSci-X 2015*1st International School and Conference on Network Science***Rio de Janeiro, Brazil**

2015

Employment

University of Zaragoza*Research assistant*

Development of platforms for socio-economic experiments. Execution and data analysis of experiments. Theoretical modelling in evolutionary game theory.

Zaragoza, Spain

02/2019 -

UC3M*Research assistant*

Development of platforms for socio-economic experiments. Execution and data analysis of experiments.

Madrid, Spain

02/2017 - 01/2019

Kaffa Mobile*Software Engineer*

Development of mobile and web applications with Java and Lua for GIS. Requirements analysis directly with stakeholders.

Campinas, Brazil

10/2013 - 07/2014

MC1*Developer*

Development of applications for Android and Windows mobile devices. Training of interns.

Campinas, Brazil

07/2012 - 10/2013

Kaffa Mobile*Intern*

Development of applications with Java and Lua for mobile devices.

Campinas, Brazil

5/2011 - 06/2012

CPqD*Intern*

Web Development with Java and Javascript.

Campinas, Brazil

1/2011 - 05/2011

Institute Of Economics - UNICAMP*Intern*

Development of Web Applications using Java, Javascript, JSF, and SQL Server Database.

Campinas, Brazil

7/2009 - 1/2011

Celere IT*Intern*

Development of Web Applications with C#.NET, ASP.NET, and SQL Server Database.

Campinas, Brazil

4/2008 - 11/2008

John & Mark IT Solutions*Intern*

Software Development with Visual Basic.NET and SQL Server.

São José dos Campos, Brazil

1/2007 - 12/2007

Academic Activities

Teaching Assistant*Algorithms and Computer Programming*

Laboratory classes, marking, assignment review, office hours, online support.

University of Campinas

2015

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| Invited Lecture | University of Campinas |
| <i>Database course</i> | 2015 |
| Two Lectures about Complex Networks given to undergraduate and graduate students. | |
| XI Theses and Dissertations Workshop - WTD | IC - University of Campinas |
| <i>Examination Board Member</i> | 2016 |
| Evaluation of theses and dissertations proposals. | |

Grants & awards

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| CAPES | |
| <i>Master Scholarship</i> | 07/2016 |
| Microsoft Research - Open Data Scholarship | |
| <i>Master Scholarship</i> | 03/2016 - 06/2016 |
| Santander International Mobility Scholarship | |
| <i>Mobility scholarship for 6 months exchange at University of Zaragoza</i> | 07/2015 - 02/2016 |
| CAPES | |
| <i>Master Scholarship</i> | 12/2014-02/2015 |
| IHC+CLIHC 2011 | |
| <i>1st Place on the Evaluation Competition, Undergraduate Level.</i> | 2011 |

Expertise

Data Analysis: Full-Stack Big Data Analysis, Time Series Analysis, Panel Data Analysis, Dynamic Panel Models, Data Visualization, Machine Learning Algorithms

Programing Languages: Python, R, C++, Java, Lua, C, Javascript, C#

Databases: PostgreSQL, MySQL, SQL Server, HSQLDB, SQLite

Referee experience

- PLoS ONE
- Chaos, Solutions & Fractals
- Journal of Statistical Mechanics: Theory and Methods
- Journal of Complex Networks

Conference Organization

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| BIFI18 | Zaragoza, Spain |
| <i>BIFI International Conference on Complexity, Networks and Collective Behavior</i> | 2018 |
| Web design, implementation and local organization | |

Languages

Portuguese: Native **English:** Fluent **Spanish:** Fluent