

Felipe Maciel Cardoso | CV

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[fmcardoso.github.io/](https://github.com/fmcardoso)

Education

University of Zaragoza **Zaragoza, Spain**
PhD Candidate in Physics 2017 - 2020 (expected)

Advisors: Prof. Yamir Moreno & Dr. Carlos Gracia Lázaro

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

University of Campinas **Campinas, Brazil**
MSc in Computer Science 2014 - 2016

Advisor: Prof. André Santanchè

Thesis: Topical Homophily in an Online Social Network

University of Campinas **Campinas, Brazil**
Bachelor of Computer Science 2008 - 2012

Exchanges

ISI Foundation **Turin, Italy**
Institute for Scientific Interchange 06/2019 – 07/2019

ISI Foundation **Turin, Italy**
Institute for Scientific Interchange 06/2018 – 07/2018

University of Zaragoza **Zaragoza, Spain**
Six months exchange at the COSNET Lab. 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, and 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, and Y. Moreno, "Topical Alignment in Online Social Systems", *Frontiers in Physics*, DOI: doi.org/10.3389/fphy.2019.00058

Papers under review & in preparation

- **F. Maciel Cardoso**, C. Gracia-Lázaro, and Y. Moreno, "Dynamics of heuristics selection for cooperative behaviour", *New Journal of Physics*, accepted.
- **F. Maciel Cardoso**, S. Meloni, C. Gracia-Lázaro, A. Antonioni, José A. Cuesta, A. Sánchez, and Y. Moreno, "Framing in multiple public goods games and donation to charities", *under review*.
- 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", *in preparation*.
- **F. Maciel Cardoso**, M. Jusup, C. Gracia-Lázaro, Z. Wang, A. Sánchez, and Y. Moreno, "Targets and biases: a collective-risk social dilemma between two countries", *in preparation*.

Talks

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

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 <i>Statistical Network Science</i> Topical homophily in online social systems	Mallorca, Spain 2017

Schools Attended

SEMSTAT17 **Eindhoven, Netherlands**
Statistical Network Science 2017

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

Employment

University of Zaragoza **Zaragoza, Spain**
Research assistant 02/2019 -

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

UC3M **Madrid, Spain**
Research assistant 02/2017 - 01/2019

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

Kaffa Mobile **Campinas, Brazil**
Software Engineer 10/2013 - 07/2014

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

MC1 **Campinas, Brazil**
Developer 07/2012 - 10/2013

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

Kaffa Mobile **Campinas, Brazil**
Intern 5/2011 - 06/2012

Development of applications with Java and Lua for mobile devices.

CPqD **Campinas, Brazil**
Intern 1/2011 - 05/2011

Web Development with Java and Javascript.

Institute Of Economics - UNICAMP **Campinas, Brazil**
Intern 7/2009 - 1/2011

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

Celere IT **Campinas, Brazil**
Intern 4/2008 - 11/2008

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

John & Mark IT Solutions **São José dos Campos, Brazil**
Intern 1/2007 - 12/2007

Software Development with Visual Basic.NET and SQL Server.

Academic Activities

Teaching Assistant **University of Campinas**
Algorithms and Computer Programming 2015

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

Invited Lecture **University of Campinas**
Database course 2015

Two Lectures about Complex Networks given to undergraduate and graduate students.

XI Theses and Dissertations Workshop - WTD

Examination Board Member

Evaluation of theses and dissertations proposals.

IC - University of Campinas

2016

Grants & awards

CAPES

Master Scholarship

07/2016

Microsoft Research - Open Data Scholarship

Master Scholarship

03/2016 - 06/2016

Santander International Mobility Scholarship

Mobility scholarship for 6 months exchange at University of Zaragoza

07/2015 - 02/2016

CAPES

Master Scholarship

12/2014-02/2015

IHC+CLIHC 2011

1st Place on the Evaluation Competition, Undergraduate Level.

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

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

Conference Organization

BIFI18

BIFI International Conference on Complexity, Networks and Collective Behavior

Web design, implementation and local organization

Zaragoza, Spain

2018

Languages

Portuguese: Native

English: Fluent

Spanish: Fluent