

**c v n** CURRÍCULUM VITAE NORMALIZADO



**Juan Fernández Gracia**

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## Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

My main area of research is the study of collective phenomena mediated by social interactions and mobility. My research is characterized by the combination of data analysis and modeling in order to advance both the understanding of the connection between basic microscopic mechanisms and emergent phenomena from a fundamental perspective, and in the development of models that incorporate details closer to the description of the real world. I am also interested in transferring concepts and methodologies across different fields (e.g. from statistical physics to the life sciences). A signature of my record is the interdisciplinarity which is reflected in the collaborations and the journals where I have published.

My background is the physics of complex systems with a strong interdisciplinary component. After my Ph.D. at IFISC (CSIC-UIB) I made a postdoctoral stay at the Harvard School of Public Health, where I got involved in epidemiological problems. Currently I have a fellowship from the UIB on 'Megacities, mobility, social networks and epidemic risk in the era of Big Data'. I have authored 24 papers, and I am the leading author of 10 of them. I have also been the leading author of 2 book chapters and author of one more. I have published in leading interdisciplinary journals (PNAS, IF=9.58) and specialized journals in physics (PRL, IF=9,227) or in ecology (TREE, IF=15,236).

Research lines:

- **Spreading processes.** I have worked on theory of spreading processes (Frontiers in Physics 6 21) and also in more data-driven research where we assessed the risk of nosocomial infections due to the transfer of patients between hospitals in the whole USA (Scientific Reports 7 2930). This work received the Best Paper Award at SBP-BRIMS 2017. Recently I have also worked on the analysis and modeling of Ebola and cholera in Sierra Leone (PNAS 117 5067).

- **Mobility and Metapopulations.** On the one hand, mobility shapes face-to-face interactions in social systems. On the other hand, metapopulations provide a valuable framework for the description of phenomena in large structured populations. I have worked on both this topics and the combination of them. I have studied the ecological theories that frame human mobility (TREE 32 198) and also movement in the ocean, be it of animals (Scientific Reports 7 112, PNAS 201716137 biggest data set on marine megafauna movement assembled at the time) or of vessels (Scientific Reports 6 30682). I used a combination of mobility and metapopulations for the study of the spread of nosocomial infections in the network of US hospitals (Scientific Reports 7 2930) and for the study of opinion dynamics, matching an opinion dynamics model with real data on electoral results in the US (PRL 112 158701). This work has received attention (Physics Focus and PRL editor's suggestion) as to have follow-ups (PRE 97 062313) and an extension in a Master thesis that I codirected.

- **Complex networks.** Complex networks represent interactions and thus are the skeleton of a system. My interest ranges from theoretical studies on the relationship between form and function, to the study of real networks. In particular, I have focused on the importance of the timing of interactions (PRE 84 015103, Temporal Networks, 331-352, Scientific Reports 7 7166), the inclusion of states on the links of network (PRE 86 066113), the plasticity of



ecological networks (Applied Network Science 4 23), and higher order structures of networks (Scientific Reports 9 11710).



## General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Number of publications: 27  
Open access publications: 13

### Information extracted from the ISI Web of Science on November 24th 2020:

Total number of citations: 380  
Average number of citations/year in the period 2015-2019: 38.4  
Q1 publications : 18  
D1 publications: 6  
h index : 10

### Information extracted from the Google scholar profile on November 24th 2020 (<https://scholar.google.com/citations?hl=es&user=kVmTOj4AAAAJ>):

Total number of citations: 624  
h index: 12  
i10 index: 15



## Juan Fernández Gracia

Surname(s): **Fernández Gracia**  
 Name: **Juan**  
 ORCID: **0000-0001-9728-7666**  
 ScopusID: **35185080200**  
 ResearcherID: **S-4344-2018**  
 Contact aut. region/reg.: **Balearic Islands**

### Current professional situation

**Employing entity:** Universitat de les Illes Balears - Consell Superior d'Investigacions Científiques (UIB-CSIC) **Type of entity:** Public Research Body

**Department:** Institute of Interdisciplinary Physics and Complex Systems (IFISC), Institute of Interdisciplinary Physics and Complex Systems (IFISC)

**Professional category:** Postdoctoral researcher

**Start date:** 01/02/2017

**Type of contract:** Temporary employment contract **Dedication regime:** Full time

**Primary (UNESCO code):** 229900 - Other physical specialities (specify)

**Performed tasks:** Complex Systems approach to movement ecology, working with biologging data. Analysis of the data and design of models.

**Identify key words:** Net dynamics; Percolation; Simulations outside data analysis; Nets

### Previous positions and activities

	Employing entity	Professional category	Start date
1	Harvard T.H. Chan School of Public Health	Postdoctoral researcher	15/01/2015
2	Institut Mediterrani d'Estudis Avançats	Postdoctoral researcher	01/07/2014

**1** **Employing entity:** Harvard T.H. Chan School of Public Health **Type of entity:** University

**Professional category:** Postdoctoral researcher

**Start-End date:** 15/01/2015 - 15/01/2017

**Duration:** 2 years

**2** **Employing entity:** Institut Mediterrani d'Estudis Avançats **Type of entity:** Public Research Body

**Professional category:** Postdoctoral researcher

**Start-End date:** 01/07/2014 - 31/12/2014

**Duration:** 6 months



## Education

### University education

#### 1st and 2nd cycle studies and pre-Bologna degrees

- 1** **University degree:** Official Master  
**Name of qualification:** Physics M.Sc.  
**City degree awarding entity:** Spain  
**Degree awarding entity:** UIB (Universitat de les Illes Balears) **Type of entity:** University  
**Date of qualification:** 03/02/2011  
**Average mark:** Excellent
- 2** **University degree:** Higher degree  
**Name of qualification:** Physics degree  
**City degree awarding entity:** Spain  
**Degree awarding entity:** Universitat de Barcelona **Type of entity:** University  
**Date of qualification:** 10/07/2009  
**Average mark:** Good

#### Doctorates

**Doctorate programme:** Doctor en Física  
**Degree awarding entity:** Universidad de las Islas Baleares **Type of entity:** University  
**City degree awarding entity:** Spain  
**Date of degree:** 18/02/2014  
**Thesis title:** From Mechanisms to data inspired-modeling of collective social phenomena  
**Thesis director:** Maxi San Miguel y Victor M. Eguiluz

### Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French	B1	B1	B1	B1	A2
English	C1	C1	C1	C1	C1
German	C1	C1	C1	C1	C1
Catalan	C2	C2	C2	C2	C2
Spanish	C2	C2	C2	C2	C2



## Teaching experience

### General teaching experience

- 1 **Name of the course:** Physics I  
**University degree:** Chemistry degree  
**Start date:** 16/09/2019 **End date:** 31/01/2020  
**Entity:** Universidad de las Islas Baleares **Type of entity:** University  
**Faculty, institute or centre:** Facultad de Ciencias
- 2 **Name of the course:** Complex Networks  
**University degree:** Complex Systems Master  
**Start date:** 02/10/2018 **End date:** 30/03/2019  
**Entity:** Universidad de las Islas Baleares **Type of entity:** University  
**Faculty, institute or centre:** IFISC
- 3 **Name of the course:** Complex Networks  
**University degree:** Complex Systems Master  
**Start date:** 02/10/2017 **End date:** 30/03/2018  
**Entity:** Universidad de las Islas Baleares **Type of entity:** University  
**Faculty, institute or centre:** IFISC
- 4 **Name of the course:** Hands on Complex Networks  
**University degree:** IV Summer School on Statistical Physics of Complex and Small Systems  
**Start date:** 08/09/2014 **End date:** 19/09/2014  
**Entity:** INSTITUTO DE FISICA INTERDISCIPLINAR Y SISTEMAS COMPLEJOS **Type of entity:** State agency

### Experience supervising doctoral thesis and/or final year projects

- 1 **Project title:** Aggression-affiliation Motifs in Bottlenose Dolphins' Social Networks  
**Type of project:** Minor thesis  
**Co-director of thesis:** José J Ramasco Sukia; Juan Fernández Gracia  
**Entity:** University of the Balearic Islands **Type of entity:** University  
**Student:** Ana Pérez Manrique  
**Date of reading:** 06/03/2020
- 2 **Project title:** Multiple options noisy voter model: application to european elections  
**Type of project:** Minor thesis  
**Co-director of thesis:** José Javier Ramasco Sukia  
**Entity:** University of the Balearic Islands  
**City of entity:** Spain  
**Student:** Gianmarco Pisano  
**Date of reading:** 2017



## Scientific and technological experience

### Scientific or technological activities

#### R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** EL IFISC - Una introducción a la Física de los Sistemas Complejos:Caos y Patrones  
**Entity where project took place:** Universidad de las Islas Baleares **Type of entity:** \*\*Universitats  
**City of entity:** Spain  
**Name principal investigator (PI, Co-PI....):** Claudio Rubén Mirasso Santos  
**Nº of researchers:** 5  
**Funding entity or bodies:** Conselleria d'Innovació, Interior i Justícia **Type of entity:** \*\*Administracions Públiques  
**City funding entity:** Spain  
**Code according to the funding entity:** 011FC2011  
**Start-End date:** 17/01/2011 - 01/01/2050 **Duration:** 38 years - 11 months - 16 days  
**Participating entity/entities:** Universitat de les Illes Balears  
**Total amount:** 4.500 €
- 2** **Name of the project:** Espacio-temporalidad en las interacciones sociobiológicas, modelos y métodos  
**Entity where project took place:** Universidad de las Islas Baleares **Type of entity:** \*\*Universitats  
**City of entity:** Spain  
**Name principal investigator (PI, Co-PI....):** Victor Martinez Eguiluz; Konstantin Klemm -  
**Nº of researchers:** 3  
**Funding entity or bodies:** Ministerio de Economía y Competitividad (MINECO) **Type of entity:** \*\*Ministeris  
**City funding entity:** Spain  
**Code according to the funding entity:** FIS2016-80067-P  
**Start-End date:** 30/12/2016 - 29/12/2020 **Duration:** 4 years  
**Participating entity/entities:** CSIC  
**Total amount:** 54.450 €
- 3** **Name of the project:** MIDAS Center for Communicable Disease Dynamics  
**Entity where project took place:** Harvard T.H. Chan School of Public Health **Type of entity:** University Centres and Structures and Associated Bodies  
**City of entity:** Boston, United States of America  
**Funding entity or bodies:** National Institutes of Health **Type of entity:** Administrative Body of the National Health System  
**City funding entity:** United States of America  
**Start-End date:** 15/09/2009 - 31/08/2019  
**Total amount:** 22.000.000 €





- 4** **Name of the project:** CAASSE - Coupled Animal and Artificial Sensing for Sustainable Ecosystems, finançat per 'King Abdullah University of Science and Technology'  
**Entity where project took place:** Universidad de las Islas Baleares **Type of entity:** \*\*Universitats  
**City of entity:** Spain  
**Name principal investigator (PI, Co-PI....):** Victor Martinez Eguiluz  
**Nº of researchers:** 3  
**Funding entity or bodies:**  
King Abdullah University of Science and Technology **Type of entity:** \*\*Universitats  
**City funding entity:** Saudi Arabia  
**Code according to the funding entity:** OSR-2015-SENSORS-2707  
**Start-End date:** 01/01/2016 - 31/12/2018 **Duration:** 3 years  
**Participating entity/entities:** Universitat de les Illes Balears  
**Total amount:** 160.840,55 €
- 5** **Name of the project:** LASAGNE - multi-LAYer SpAtiotemporal Generalized NEtworks  
**Entity where project took place:** Universidad de las Islas Baleares **Type of entity:** \*\*Universitats  
**City of entity:** Spain  
**Name principal investigator (PI, Co-PI....):** Maximino San Miguel Ruibal  
**Nº of researchers:** 6  
**Funding entity or bodies:**  
European Commission **Type of entity:** \*\*Unió Europea  
**City funding entity:** Unknown  
**Code according to the funding entity:** FP7-ECGA-318132  
**Start-End date:** 01/11/2012 - 31/10/2015 **Duration:** 3 years  
**Participating entity/entities:** Universitat de les Illes Balears  
**Total amount:** 201.476,25 €
- 6** **Name of the project:** Física interdisciplinar  
**Entity where project took place:** Universidad de las Islas Baleares **Type of entity:** \*\*Universitats  
**City of entity:** Spain  
**Name principal investigator (PI, Co-PI....):** Maximino San Miguel Ruibal  
**Nº of researchers:** 36  
**Funding entity or bodies:**  
Conselleria d'Innovació, Interior i Justícia **Type of entity:** \*\*Administracions Públiques  
**City funding entity:** Spain  
**Code according to the funding entity:** 59/2011  
**Start-End date:** 01/12/2011 - 30/11/2014 **Duration:** 3 years  
**Participating entity/entities:** Universitat de les Illes Balears  
**Total amount:** 36.000 €
- 7** **Name of the project:** MODASS: Modelización y análisis de sistemas sociales: evolución estructural, correlaciones temporales y propagación de opiniones  
**Entity where project took place:** Consejo Superior de Investigaciones Científicas **Type of entity:** \*\*Altres organismes  
**City of entity:** Spain  
**Name principal investigator (PI, Co-PI....):** Víctor M. Eguiluz  
**Nº of researchers:** 4

**Funding entity or bodies:**

Fondos FEDER

**Type of entity:** \*\*Altres organismes**City funding entity:** Unknown

Ministerio de Ciencia e Innovación

**Type of entity:** \*\*Altres organismes**City funding entity:** Unknown**Code according to the funding entity:** FIS2011-24785**Start-End date:** 2012 - 2014**Duration:** 2 years - 1 day**Participating entity/entities:** Consejo Superior de Investigaciones Científicas**Total amount:** 77.440 €**8 Name of the project:** FISICOS (Interdisciplinary Physics of Complex Systems)**Entity where project took place:** Universidad de las Islas Baleares **Type of entity:** \*\*Universitats**City of entity:** Spain**Name principal investigator (PI, Co-PI....):** Maximino San Miguel Ruibal**Nº of researchers:** 9**Funding entity or bodies:**

Secretaria de Estado de Universidades e Investigación del MEC

**Type of entity:** \*\*Altres organismes**City funding entity:** Unknown**Code according to the funding entity:** FIS07-60327**Start-End date:** 2007 - 2012**Duration:** 5 years - 1 day**Participating entity/entities:** Universitat de les Illes Balears**Total amount:** 1.300.000 €**9 Name of the project:** El IFISC y el paradigma de los sistemas complejos**Entity where project took place:** Universidad de las Islas Baleares **Type of entity:** \*\*Universitats**City of entity:** Spain**Name principal investigator (PI, Co-PI....):** Claudio Rubén Mirasso Santos**Nº of researchers:** 5**Funding entity or bodies:**

Conselleria d'Innovació, Interior i Justícia

**Type of entity:** \*\*Administracions Públiques**City funding entity:** Spain**Code according to the funding entity:** 034FC2010**Start-End date:** 01/01/2010 - 15/09/2010**Duration:** 8 months - 15 days**Participating entity/entities:** Universitat de les Illes Balears**Total amount:** 1.900 €



## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1 Víctor M. Eguíluz; Juan Fernández Gracia; Jorge P. Rodríguez; Juan M Pericás; Carlos J Melián. Risk of secondary infection waves of COVID-19 in an insular region: the case of the Balearic Islands, Spain. *Frontiers in Medicine*. 09/11/2020.  
**DOI:** 10.3389/fmed.2020.563455  
**Type of production:** Scientific paper **Format:** Journal
- 2 Juan Fernández Gracia; Anna Traveset; Maren Ziegler; Christian R Voolstra; Carlos M Duarte; Víctor Martínez Eguíluz. Robustness to extinction and plasticity derived from mutualistic bipartite ecological networks. *Scientific Reports*. 10, pp. 9783. 17/06/2020.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 3 Rebecca Kahn; Corey M Peak; Juan Fernández Gracia; Alexandra Hill; Amara Jambai; Louisa Ganda; Marcia C Castro; Caroline O. Buckee. Incubation periods impact the spatial predictability of cholera and Ebola outbreaks in Sierra Leone. *Proceedings of the National Academy of Science USA*. 117 - 9, pp. 5067 - 5073. 03/03/2020.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 4 Victor M. Eguíluz; Guillem Salazar; Juan Fernández-Gracia; John K. Pearman; Josep M. Gasol; Silvia G. Acinas; Shinichi Sunagawa; Xabier Irigoien; Carlos M. Duarte. Scaling of species distribution explains the vast potential marine prokaryote diversity. *Scientific Reports*. 9 - 1, pp. 1 - 8. 10/12/2019.  
**DOI:** <https://doi.org/10.1038/s41598-019-54936-y>  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** MULTIDISCIPLINARY SCIENCES -- SCIE  
**Impact index in year of publication:** 3.998 **Journal in the top 25%:** Yes  
**Position of publication:** 17 **No. of journals in the cat.:** 71
- 5 Ana Micaela Martins Sequeira; Graeme Clive Hays; David W. Sims; Víctor M. Eguíluz; Jorge P. Rodríguez; Michelle R. Heupel; Rob Harcourt; Hannah Calich; Nuno Queiroz; Daniel Paul Costa; Juan Fernández-Gracia; Luciana C. Ferreira; Simon David Goldsworthy; Mark A. Hindell; Mary-Anne Lea; Mark G. Meekan; Anthony M. Pagano; Scott A. Shaffer; Julia Reisser; Michele Thums; Michael Weise; Carlos M. Duarte. Overhauling Ocean Spatial Planning to Improve Marine Megafauna Conservation. *Frontiers in Marine Science*. 6 - November, pp. 1 - 12. 01/09/2019.  
**DOI:** <https://doi.org/10.3389/fmars.2019.00639>  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** MARINE & FRESHWATER BIOLOGY -- SCIE  
**Impact index in year of publication:** 3.661 **Journal in the top 25%:** Yes  
**Position of publication:** 7 **No. of journals in the cat.:** 106



- 6** Juan Fernández-Gracia; Jukka Pekka Onnela. Flexible model of network embedding. *Scientific Reports*. 9 - 1, pp. 1 - 7. 12/08/2019.  
**DOI:** <https://doi.org/10.1038/s41598-019-48217-x>  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** MULTIDISCIPLINARY SCIENCES -- SCIE  
**Impact index in year of publication:** 3.998 **Journal in the top 25%:** Yes  
**Position of publication:** 17 **No. of journals in the cat.:** 71
- 7** Rob Harcourt; Ana M. M. Sequeira; Xuelei Zhang; Fabien Roquet; Kosei Komatsu; Michelle Heupel; Clive McMahon; Fred Whoriskey; Mark Meekan; Gemma Carroll; Stephanie Brodie; Colin Simpfendorfer; Mark Hindell; Ian Jonsen; Daniel P. Costa; Barbara Block; Mônica Muelbert; Bill Woodward; Mike Weise; Kim Aarestrup; Martin Biuw; Lars Boehme; Steven J. Bograd; Dorian Cazau; Jean-Benoit Charrassin; Steven J. Cooke; Paul Cowley; P. J. Nico de Bruyn; Tiphaine Jeanniard du Dot; Carlos Duarte; Víctor M. Eguíluz; Luciana C. Ferreira; Juan Fernández-Gracia; Kimberly Goetz; Yusuke Goto; Christophe Guinet; Mike Hammill; Graeme C. Hays; Elliott L. Hazen; Luis A. Hückstädt; Charlie Huveneers; Sara Iverson; Saifullah Arifin Jaaman; Kongkiat Kittiwattanawong; Kit M. Kovacs; Christian Lydersen; Tim Moltmann; Masaru Naruoka; Lachlan Phillips; Baptiste Picard; Nuno Queiroz; Gilles Reverdin; Katsufumi Sato; David W. Sims; Eva B. Thorstad; Michele Thums; Anne M. Treasure; Andrew W. Trites; Guy D. Williams; Yoshinari Yonehara; Mike A. Fedak. Animal-Borne Telemetry: An Integral Component of the Ocean Observing Toolkit. *Frontiers in Marine Science*. 6, pp. 326 - 326. 26/06/2019. Available on-line at: <<https://www.frontiersin.org/article/10.3389/fmars.2019.00326>>.  
**DOI:** <https://doi.org/10.3389/fmars.2019.00326>  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** MARINE & FRESHWATER BIOLOGY -- SCIE  
**Impact index in year of publication:** 3.661 **Journal in the top 25%:** Yes  
**Position of publication:** 7 **No. of journals in the cat.:** 106
- 8** Ana M.M. Sequeira; Michelle R. Heupel; Mary-Anne Lea; Víctor M. Eguíluz; Carlos M Duarte; Mark G. Meekan; H J Calich; Ruth H. Carmichael; Dan P. Costa; Luciana C Ferreira; Juan Fernández Gracia; Robert Harcourt; A-L Harrison; Ian Jonsen; Clive R McMahon; David W Sims; RP Wilson; Graeme C Hays. The importance of sample size in marine megafauna tagging studies. *Ecological Applications*. Ecological society of America, 10/06/2019.  
**DOI:** <https://doi.org/10.1002/eap.1947>  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No **Category:** ECOLOGY -- SCIE  
**Impact source:** ISI **Journal in the top 25%:** Yes  
**Impact index in year of publication:** 4.248 **No. of journals in the cat.:** 168  
**Position of publication:** 28
- 9** Somaye Sheykhal; Juan Fernández Gracia; Traveset, Anna. Extinction-induced community reorganization in bipartite networks. *Applied Network Science*. 4 - 1, pp. 23 - 23. 21/05/2019. Available on-line at: <<https://doi.org/10.1007/s41109-019-0131-6>>. ISSN 2364-8228  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 10** Paula Tuzón; Juan Fernández Gracia; Víctor M. Eguíluz. From continuous to discontinuous transitions in social diffusion. *Frontiers in Physics*. 6, pp. 21. Frontiers, 07/03/2018.  
**DOI:** <https://doi.org/10.3389/fphy.2018.00021>  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No **Category:** PHYSICS, MULTIDISCIPLINARY -- SCIE  
**Impact source:** ISI **Journal in the top 25%:** No  
**Impact index in year of publication:** 1.895

**Position of publication:** 36**No. of journals in the cat.:** 81

- 11** Ana M.M. Sequeira; Jorge P. Rodríguez; Víctor M. Eguíluz; Robert Harcourt; Mark Hindell; David W. Sims; Carlos M. Duarte; Daniel P. Costa; Juan Fernández Gracia; Luciana C. Ferreira; Graeme C. Hays; Michelle R. Heupel; Mark G. Meekan; Allen Aven; Fred Baileul; Alastair M.M. Baylis; Michael L. Berumen; Camrin D. Braun; Jennifer Burns; M. Julian Caley; Richard Campbell; Ruth H. Carmichael; Eric Clua; Luke D. Einoder; Ari Friedlaender; Mike E. Goebel; Simon D. Goldsworthy; Christophe Guinet; John Gunn; Derek Hamer; Neil Hammerschlag; M Hammill; Luis A. Hückstädt; Nicolas E. Humphries; M-A Lea; Andrew Lowther; Alice Mackay; Elizabeth McHuron; Jane McKenzie; Lachlan McLeay; Clive R. McMahon; Kerrie Mengersen; MMC Muelbert; Anthony M. Pagano; Bradley Page; Nuno Queiróz; Patrick W. Robinson; Scott A. Shaffer; Mahmood Shivji; Gregory B. Skomal; Simon R. Thorrold; Stella Villegas-Amtmann; Michael Weise; R Wells; B Wetherbee; Annalise Wiebkin; Barbara Wienecke; Michele Thums. Convergence of marine megafauna movement patterns in coastal and open oceans. *Proceedings of the National Academy of Sciences*. 115 - 12, pp. 3072 - 3077. National Academy of Sciences, 21/02/2018.  
**DOI:** 10.1073/pnas.1716137115  
**Type of production:** Scientific paper  
**Corresponding author:** No  
**Impact source:** ISI  
**Impact index in year of publication:** 9.58  
**Position of publication:** 7  
**Category:** MULTIDISCIPLINARY SCIENCES -- SCIE  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 69
- 12** Michele Thums; Juan Fernández Gracia; Ana M.M. Sequeira; Víctor M. Eguíluz; Carlos M. Duarte; Mark M. Meekan. How Big Data Fast Tracked Human Mobility Research and the Lessons for Animal Movement Ecology. *Frontiers in Marine Science*. 5, pp. 21. Frontiers, 13/02/2018.  
**DOI:** <https://doi.org/10.3389/fmars.2018.00021>  
**Type of production:** Scientific paper  
**Corresponding author:** No  
**Impact source:** ISI  
**Impact index in year of publication:** 3.086  
**Position of publication:** 13  
**Format:** Journal  
**Category:** MARINE & FRESHWATER BIOLOGY -- SCIE  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 108
- 13** Juan Fernández Gracia; Lucas Lacasa. Bipartisanship Breakdown, Functional Networks, and Forensic Analysis in Spanish 2015 and 2016 National Elections. *Complexity*. 2018, pp. 9684749. 24/01/2018.  
**DOI:** <https://doi.org/10.1155/2018/9684749>  
**Type of production:** Scientific paper  
**Corresponding author:** Yes  
**Impact source:** ISI  
**Impact index in year of publication:** 2.591  
**Position of publication:** 21  
**Format:** Journal  
**Category:** MATHEMATICS, INTERDISCIPLINARY APPLICATIONS -- SCIE  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 105
- 14** Oriol Artime; Juan Fernández-Gracia; José J. Ramasco; Maxi San Miguel. Joint effect of ageing and multilayer structure prevents ordering in the voter model. 917079 - *Scientific Reports*. 7, pp. 7166. (United Kingdom): Nature Publishing Group, 02/08/2017. Available on-line at: <<https://www.nature.com/articles/s41598-017-07031-z>>. ISSN 2045-2322  
**Type of production:** Scientific paper  
**Total no. authors:** 4  
**Impact source:** ISI  
**Impact index in year of publication:** 4,122  
**Position of publication:** 12  
**Format:** Journal  
**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 64



- 15** J. Fernández-Gracia; J.-P. Onnela; M.L. Barnett; V.M. Eguíluz; N.A. Christakis. Influence of a patient transfer network of US inpatient facilities on the incidence of nosocomial infections. 917079 - Scientific Reports. 7, pp. 2930. (United Kingdom): Nature Publishing Group, 07/06/2017. Available on-line at: <<https://www.nature.com/articles/s41598-017-02245-7>>. ISSN 2045-2322  
**DOI:** <https://doi.org/10.1038/s41598-017-02245-7>  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 4,122  
**Position of publication:** 12  
**Format:** Journal  
**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 64
- 16** Jorge P. Rodríguez; Juan Fernández-Gracia; Michele Thums; Mark A. Hindell; Ana M. M. Sequeira; Mark G. Meehan; Daniel P. Costa; Christophe Guinet; Robert G. Harcourt; Clive R. McMahon; Monica Muelbert; Carlos M. Duarte; Víctor M. Eguíluz. Big data analyses reveal patterns and drivers of the movements of southern elephant seals. 917079 - Scientific Reports. 7, pp. 112. (United Kingdom): Nature Publishing Group, 08/03/2017. Available on-line at: <<http://www.nature.com/articles/s41598-017-00165-0>>. ISSN 2045-2322  
**DOI:** <https://doi.org/10.1038/s41598-017-00165-0>  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 4,122  
**Position of publication:** 12  
**Format:** Journal  
**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 64
- 17** VM Eguíluz; J Fernández-Gracia; X Irigoien; CM Duarte. A quantitative assessment of Arctic shipping in 2010-2014. 917079 - Scientific Reports. 6, pp. 30682. (United Kingdom): Nature Publishing Group, 01/08/2016. Available on-line at: <<http://www.nature.com/articles/srep30682>>. ISSN 2045-2322  
**DOI:** <https://doi.org/10.1038/srep30682>  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 4.259  
**Position of publication:** 10  
**Format:** Journal  
**Category:** MULTIDISCIPLINARY SCIENCES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 64
- 18** Eguíluz V. M.; Masuda N.; Fernández-Gracia J.. Bayesian decision making in human collectives with binary choices. 915133 - Plos One. 10 - 4, (United States of America): Public Library of Science, 13/04/2015. Available on-line at: <<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0121332>>. ISSN 1932-6203  
**DOI:** <https://doi.org/10.1371/journal.pone.0121332>  
**Type of production:** Scientific paper  
**Position of signature:** 3  
**Total no. authors:** 3  
**Impact source:** ISI  
**Impact index in year of publication:** 3.057  
**Position of publication:** 11  
**Format:** Journal  
**Category:** MULTIDISCIPLINARY SCIENCES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 63
- 19** Fernández-Gracia, J.; Suchecki, K.; Ramasco, J.J.; San Miguel, M.; Martínez, V.. Is the Voter Model a Model for Voters?. 903244 - Physical Review Letters. 112, pp. 158701. (United States of America): 18/04/2014. Available on-line at: <<http://journals.aps.org/prl/abstract/10.1103/PhysRevLett.112.158701>>. ISSN 0031-9007  
**DOI:** <https://doi.org/10.1103/PhysRevLett.112.158701>  
**Type of production:** Scientific paper  
**Format:** Journal



**Impact source:** ISI  
**Impact index in year of publication:** 7.512  
**Position of publication:** 6

**Category:** PHYSICS, MULTIDISCIPLINARY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 78

- 20** Fernández-Gracia, J.; Castelló, X.; Eguíluz, V.M.; San Miguel, M.. Dynamics of link states in complex networks: The case of a majority rule. 908787 - Physical Review E. 86, (United States of America): American Physical Society, 17/12/2012. Available on-line at: <<http://link.aps.org/doi/10.1103/PhysRevE.86.066113>>. ISSN 1539-3755  
**DOI:** <https://doi.org/10.1103/PhysRevE.86.066113>

**Type of production:** Scientific paper  
**Total no. authors:** 4

**Format:** Journal

**Impact source:** ISI  
**Impact index in year of publication:** 2.313  
**Position of publication:** 10

**Category:** PHYSICS, FLUIDS & PLASMAS  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 31

**Impact source:** ISI  
**Impact index in year of publication:** 2.313  
**Position of publication:** 6

**Category:** PHYSICS, MATHEMATICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 55

- 21** Fernández-Gracia, Juan; M. Eguíluz, Víctor; San Miguel, Maxi. Update rules and interevent time distributions: slow ordering versus no ordering in the voter model. 908787 - Physical Review E. 84, pp. 015103. (United States of America): American Physical Society, 18/07/2011. Available on-line at: <Paper at PRE>. ISSN 1539-3755  
**DOI:** <https://doi.org/10.1103/PhysRevE.84.015103>

**Type of production:** Scientific paper  
**Position of signature:** 1  
**Total no. authors:** 3

**Format:** Journal

**Impact source:** ISI  
**Impact index in year of publication:** 2.26  
**Position of publication:** 10

**Category:** PHYSICS, FLUIDS & PLASMAS  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 31

**Impact source:** ISI  
**Impact index in year of publication:** 2.26  
**Position of publication:** 6

**Category:** PHYSICS, MATHEMATICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 55

- 22** Juan Fernández Gracia; Bartomeu Fiol. No-hair theorems for black holes in the Abelian Higgs model. Journal of High Energy Physics. 2009 - 11, pp. 054. 11/09/2009.

**Type of production:** Scientific paper

**Format:** Journal

- 23** Juan Fernández Gracia; Jukka-Pekka Onnela; Michael L Barnett; Víctor M Eguíluz; Nicholas A Christakis. Spread of Pathogens in the Patient Transfer Network of US Hospitals. Social, Cultural, and Behavioral Modeling. SBP-BRIMS 2017. Lecture Notes in Computer Science. 10354, pp. 271 - 280. Springer, Cham, 15/06/2017. ISBN 978-3-319-60240-0

**Type of production:** Book chapter  
**Corresponding author:** Yes

**Format:** Book

- 24** Toni Pérez; Juan Fernández Gracia; José J Ramasco; Víctor M Eguíluz. Persistence in Voting Behavior: Stronghold Dynamics in Elections. Social, Cultural, and Behavioral Modeling. SBP-BRIMS 2015. Lecture Notes in Computer Science. 9021, pp. 173 - 181. Springer, Cham, 17/03/2015. ISBN 978-3-319-16268-3

**Type of production:** Book chapter  
**Corresponding author:** No

**Format:** Book



- 25** Fernández-Gracia, J.; Eguíluz, V.M.; San Miguel, M.. Timing Interactions in Social Simulations: The Voter Model. Temporal Networks, Series: Understanding Complex Systems VIII, Holme, P.; Saramäki, J. (Eds.). pp. 331 - 352. (Germany): Springer-Verlag, 15/04/2013. Available on-line at: <<http://www.springer.com/physics/complexity/book/978-3-642-36460-0>>. ISBN 978-3-642-36460-0  
**Type of production:** Book chapter **Format:** Book  
**Total no. authors:** 3
- 26** Lucas Lacasa; Juan Fernández Gracia. Election forensics: Quantitative methods for electoral fraud detection. Forensic science international. 294, pp. e19 - e22. Elsevier, 22/11/2018.  
**DOI:** <https://doi.org/10.1016/j.forsciint.2018.11.010>  
**Type of production:** Review **Format:** Journal  
**Corresponding author:** Yes  
**Impact source:** ISI **Category:** MEDICINE, LEGAL -- SCIE  
**Impact index in year of publication:** 1.99 **Journal in the top 25%:** No  
**Position of publication:** 5 **No. of journals in the cat.:** 17
- 27** Mark G. Meekan; Carlos M. Duarte; Juan Fernández-Gracia; Michele Thums; Ana M.M. Sequeira; Rob Harcourt; Víctor M. Eguíluz. The ecology of human mobility. 904565 - Trends in Ecology & Evolution. 32, pp. 198 - 210. (United Kingdom): 01/03/2017. Available on-line at: <<http://Online publication>>. ISSN 0169-5347  
**DOI:** <https://doi.org/10.1016/j.tree.2016.12.006>  
**Type of production:** Review **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - ECOLOGY  
**Impact index in year of publication:** 15,938 **Journal in the top 25%:** Yes  
**Position of publication:** 1 **No. of journals in the cat.:** 158

### Works submitted to national or international conferences

- 1** **Title of the work:** Inferring social relations from presence data. Manta Rays case study.  
**Name of the conference:** Costnet'19  
**Type of event:** Conference  
**Corresponding author:** Yes  
**City of event:** Bilbao, Basque Country, Spain  
**Date of event:** 09/10/2019  
**End date:** 11/10/2019  
**Organising entity:** Hospital de Cruces **Type of entity:** Healthcare Institutions  
**City organizing entity:** Bilbao, Basque Country, Spain  
 Juan Fernández Gracia; Jorge Pablo Rodríguez; Lauren Peel; Mark M. Meekan; Víctor M. Eguíluz. "Inferring social relations from presence data. Manta Rays case study."
- 2** **Title of the work:** Inferring social relations from presence data. Manta Rays case study.  
**Name of the conference:** Netsci 2019 International school and conference on network science  
**Type of event:** Conference  
**Corresponding author:** Yes  
**City of event:** Burlington, United States of America  
**Date of event:** 27/05/2019  
**End date:** 31/05/2019  
**Organising entity:** Vermont University **Type of entity:** University  
**City organizing entity:** Burlington, United States of America  
 Juan Fernández Gracia; Jorge Pablo Rodríguez; Lauren Peel; Mark M. Meekan; Víctor M. Eguíluz. "Inferring social relations from presence data. Manta Rays case study."





- 3** **Title of the work:** A flexible model of network embedding  
**Name of the conference:** Netsci 2019 International school and conference on network science  
**Corresponding author:** Yes  
**City of event:** Burlington, United States of America  
**Date of event:** 27/05/2019  
**End date:** 31/05/2019  
**Organising entity:** Vermont university **Type of entity:** University  
**City organizing entity:** Burlington, United States of America  
Juan Fernández Gracia; Jukka-Pekka Onnela. "A flexible model of network embedding".
- 4** **Title of the work:** Cooccurrence plasticity increases modularity and stability in bipartite networks.  
**Name of the conference:** Netsci 2019 International school and conference on network science  
**Corresponding author:** Yes  
**City of event:** Burlington, United States of America  
**Date of event:** 27/05/2019  
**End date:** 31/05/2019  
**Organising entity:** Vermont university **Type of entity:** University  
**City organizing entity:** Burlington, United States of America  
Somaye Sheykhali; Juan Fernández Gracia; Víctor M. Eguíluz. "Cooccurrence plasticity increases modularity and stability in bipartite networks.".
- 5** **Title of the work:** Inferring social relations from presence data. Manta Rays case study.  
**Name of the conference:** COMPLENET 2019  
**Corresponding author:** Yes  
**City of event:** Tarragona, Catalonia, Spain  
**Date of event:** 18/03/2019  
**End date:** 21/03/2019  
**Organising entity:** Universitat Rovira i Virgili **Type of entity:** University  
**City organizing entity:** Tarragona, Catalonia, Spain  
Juan Fernández Gracia; Jorge Pablo Rodríguez; Lauren Peel; Mark M. Meekan; Víctor M. Eguíluz. "Inferring social relations from presence data. Manta Rays case study.".
- 6** **Title of the work:** Cooccurrence plasticity increases modularity and stability in bipartite networks.  
**Name of the conference:** COMPLENET 2019  
**Corresponding author:** Yes  
**City of event:** Tarragona, Catalonia, Spain  
**Date of event:** 11/12/2018  
**End date:** 13/12/2018  
**Organising entity:** Universitat Rovira i Virgili **Type of entity:** University  
**City organizing entity:** Tarragona, Catalonia, Spain  
Somaye Sheykhali; Juan Fernández Gracia; Víctor M. Eguíluz. "Cooccurrence plasticity increases modularity and stability in bipartite networks.".
- 7** **Title of the work:** Cooccurrence plasticity increases modularity and stability in bipartite networks.  
**Name of the conference:** COMPLEX NETWORKS 2018 The 7th International Conference on Complex Networks and Their Applications  
**Corresponding author:** Yes  
**City of event:** Cambridge, East Anglia, United Kingdom  
**Date of event:** 11/12/2018  
**End date:** 13/12/2018



**Organising entity:** Cambridge University

**City organizing entity:** Cambridge, East Anglia, United Kingdom

Somaye Sheykhal; Juan Fernández Gracia; Víctor M. Eguíluz. "Cooccurrence plasticity increases modularity and stability in bipartite networks."

- 8** **Title of the work:** Inferring social relations from presence data. Manta Rays case study.  
**Name of the conference:** COMPLEX NETWORKS 2018 The 7th International Conference on Complex Networks and Their Applications  
**Corresponding author:** Yes  
**City of event:** Cambridge, East Anglia, United Kingdom  
**Date of event:** 11/12/2018  
**End date:** 13/12/2018  
**Organising entity:** Cambridge University  
**City organizing entity:** Cambridge, East Anglia, United Kingdom  
Juan Fernández Gracia; Jorge Pablo Rodríguez; Lauren Peel; Mark M. Meekan; Víctor M. Eguíluz. "Inferring social relations from presence data. Manta Rays case study."
- 9** **Title of the work:** Inferring social relations from presence data. Manta Rays case study.  
**Name of the conference:** PHYSICS AND ECOLOGY: Challenges at the frontier. XXXIV Scientific meetings in the Mediterranean. -Josep Miquel Vidal- Menorca,  
**Corresponding author:** Yes  
**City of event:** Mahón, Balearic Islands, Spain  
**Date of event:** 09/10/2018  
**End date:** 11/10/2018  
**Organising entity:** Sociedad Catalana de Física **Type of entity:** Associations and Groups  
**City organizing entity:** Barcelona, Catalonia, Spain  
Juan Fernández Gracia; Jorge Pablo Rodríguez; Lauren Peel; Mark M. Meekan; Víctor M. Eguíluz. "Inferring social relations from presence data. Manta Rays case study."
- 10** **Title of the work:** From continuous to discontinuous transitions in social contagion  
**Name of the conference:** NetSci2018: International School and Conference on Network Science  
**City of event:** París, Île de France, France  
**Date of event:** 13/06/2018  
**End date:** 15/06/2018  
**Organising entity:** NetSci **Type of entity:** Associations and Groups
- 11** **Title of the work:** Gromov-Wasserstein distance of complex networks  
**Name of the conference:** Costnet17  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - oral communication  
**City of event:** Palma de Mallorca, Spain  
**Date of event:** 2017  
**End date:** 2017  
Fernández-Gracia, J.; Vicente, D.; Eguíluz, V.M.
- 12** **Title of the work:** Influence of a Patient Transfer Network of US Inpatient Facilities on the Incidence of Nosocomial Infections  
**Name of the conference:** Crossroads in Complex Systems  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - poster  
**City of event:** Palma de Mallorca, Spain



**Date of event:** 2017

**End date:** 2017

J. Fernandez-Gracia ; J.-P. Onnela; M. L. Barnett; V. M. Eguíluz; N. A. Christakis.

- 13 Title of the work:** Using Gromov-Wasserstein distances to compute how far are two graphs  
**Name of the conference:** Macfang. Mapping Complexity Foundations and Applications of Network Geometry  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - oral communication  
**City of event:** Barcelona, Spain  
**Date of event:** 2017  
**End date:** 2017  
Fernández-Gracia, J.; Vicente, D.; Eguíluz, V.M.

- 14 Title of the work:** Flexible embedding of networks  
**Name of the conference:** APS March Meeting 2016  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - oral communication  
**City of event:** Baltimore, MD, United States of America  
**Date of event:** 2016  
**End date:** 2016  
Fernández-Gracia, J.; Onnela, J.P.

- 15 Title of the work:** Flexible embedding of networks  
**Name of the conference:** Complex Networks, from theory to interdisciplinary applications  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - oral communication  
**City of event:** Marseille, France  
**Date of event:** 2016  
**End date:** 2016  
Fernández-Gracia, J.; Onnela, J.P.

- 16 Title of the work:** Persistence in Voting Behavior: Stronghold Dynamics in Elections  
**Name of the conference:** CompleNet 2015 - 6th Workshop on Complex Networks  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - oral communication  
**City of event:** New York, United States of America  
**Date of event:** 2015  
**End date:** 2015  
Pérez, T.; Fernández-Gracia, J.; Ramasco, J.J.; Eguíluz, V.M.

- 17 Title of the work:** Persistence in Voting Behavior: Stronghold Dynamics in Elections  
**Name of the conference:** 2015 International Social Computing, Behavioral-Cultural Modeling and Prediction Conference (SBP15)  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - poster  
**City of event:** Washington DC, United States of America  
**Date of event:** 2015  
**End date:** 2015  
Pérez, T.; Fernández-Gracia, J.; Ramasco, J.J.; Eguíluz, V.M.



- 18** **Title of the work:** Spreading of antibiotic-resistant infections in the hospital transfer network  
**Name of the conference:** NetSci 2015 International school and conference on network science  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - oral communication  
**City of event:** Zaragoza, Spain  
**Date of event:** 2015  
**End date:** 2015  
Fernández-Gracia, J.; Onnela, J.P.; Barnett, M.L.; Eguíluz, V.M.; Christakis, N.A.
- 19** **Name of the conference:** 5th Bio-logging science symposium  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - others  
**City of event:** Estrasburg, France  
**Date of event:** 2014  
**End date:** 2014  
Juan Fernandez Gracia.
- 20** **Name of the conference:** Connected Insight Summit  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - others  
**City of event:** Cambridge, MA, United States of America  
**Date of event:** 2014  
**End date:** 2014  
Fernández-Gracia, J.
- 21** **Title of the work:** Recurrent Mobility Networks and Imperfect Imitation Shape Voting Behavior  
**Name of the conference:** Network Frontier workshop  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - poster  
**City of event:** Evanston, IL, United States of America  
**Date of event:** 2014  
**End date:** 2014  
Fernández-Gracia, J.; Suchecki, K.; Ramasco, J. J.; San Miguel, M.; Eguíluz, V.M.
- 22** **Title of the work:** Agent based model for voting behavior incorporating spatial and demographic heterogeneities  
**Name of the conference:** 18th Annual Workshop on the Economic Science with Heterogeneous Interacting Agents (WEHIA)  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - oral communication  
**City of event:** Reykjavic, Iceland  
**Date of event:** 2013  
**End date:** 2013  
Fernández-Gracia, J.; Suchecki, K.; Ramasco, J. J.; San Miguel, M.; Eguíluz, V.M.
- 23** **Title of the work:** Modeling spatial patterns in voting behavior  
**Name of the conference:** DPG spring meeting  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - oral communication  
**City of event:** Regensburg, Germany  
**Date of event:** 2013



**End date:** 2013

Fernández-Gracia, J.; Suchecki, K; Ramasco, J. J.; San Miguel, M.; Eguíluz, V.M.

**24 Title of the work:** Opinion diffusion on a network of commuting agents: confrontation with election data

**Name of the conference:** XXXIII Sunbelt Social Networks Conference of the International Network for Social Network Analysis (INSNA)

**Type of event:** Conference

**Geographical area:** International

**Type of participation:** Participatory - oral communication

**City of event:** Hamburg, Germany

**Date of event:** 2013

**End date:** 2013

Fernández-Gracia, J.; Suchecki, K; Ramasco, J. J.; San Miguel, M.; Eguíluz, V.M.

**25 Title of the work:** Recurrent mobility networks and imperfect imitation shape voting behavior

**Name of the conference:** Netsci 2013

**Type of event:** Conference

**Geographical area:** International

**Type of participation:** Participatory - oral communication

**City of event:** Copenhagen, Denmark

**Date of event:** 2013

**End date:** 2013

Fernández-Gracia, J.; Suchecki, K; Ramasco, J. J.; San Miguel, M.; Eguíluz, V.M.

**26 Name of the conference:** IV econophysics workshop of the spanish econophysics society

**Type of event:** Conference

**Type of participation:** Participatory - oral communication

**City of event:** Zaragoza, Spain

**Date of event:** 2012

**End date:** 2012

Fernández-Gracia, J.

**27 Title of the work:** Link dynamics: the case of a majority rule

**Name of the conference:** DPG spring meeting

**Type of event:** Conference

**Geographical area:** International

**Type of participation:** 'Participatory - poster

**City of event:** Germany

**Date of event:** 2012

**End date:** 2012

Fernández-Gracia, J.; Eguíluz, V.M.; San Miguel, M.

**28 Title of the work:** Link-based social dynamics in complex networks: time evolution and heterogeneous asymptotic states

**Name of the conference:** XVIII Congreso de Física Estadística

**Type of event:** Conference

**Geographical area:** International

**Type of participation:** 'Participatory - poster

**City of event:** Palma de Mallorca, Spain

**Date of event:** 2012

**End date:** 2012

Fernández-Gracia, J.; Castelló, X.; Eguíluz, V.M.; San Miguel, M.



- 29** **Title of the work:** Opinion diffusion shaped by human mobility  
**Name of the conference:** 18th International conference on Computing in Economics and Finance  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - oral communication  
**City of event:** Prague, Czech Republic  
**Date of event:** 2012  
**End date:** 2012  
Fernández Gracia, J.; Eguíluz, V.M.; San Miguel, M.
- 30** **Title of the work:** Opinion diffusion on commuting populations  
**Name of the conference:** DPG spring meeting  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - oral communication  
**City of event:** Germany  
**Date of event:** 2012  
**End date:** 2012  
Fernández-Gracia, J.; Suchecki, K; Ramasco, J. J.; San Miguel, M.; Eguíluz, V.M.
- 31** **Title of the work:** Implementing human activity patterns in social simulations  
**Name of the conference:** International conference on complex systems 2011 (ICCS 2011)  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - oral communication  
**City of event:** Boston, United States of America  
**Date of event:** 2011  
**End date:** 2011  
Fernández-Gracia, Juan; M. Eguíluz, Víctor; San Miguel, Maxi.
- 32** **Title of the work:** Interevent times and the voter model.  
**Name of the conference:** FisEs2011, XVII Congreso de Física Estadística (Barcelona)  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** 'Participatory - poster  
**City of event:** Spain  
**Date of event:** 2011  
**End date:** 2011  
Fernández-Gracia, Juan; M. Eguíluz, Víctor; San Miguel, Maxi.
- 33** **Name of the conference:** BIFI (Zaragoza)  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - others  
**City of event:** Zaragoza, Spain  
**Date of event:** 2010  
**End date:** 2010  
Juan Fernández Gracia.
- 34** **Name of the conference:** DPG spring meeting  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - others  
**City of event:** Regensburg, Germany  
**Date of event:** 2010  
**End date:** 2010  
Fernández Gracia, J.





- 35** **Name of the conference:** IARS TSCS'10 - Turunc Summer School on Complex Systems 2010, ITAP, (Turunc, Marmaris, Turkey ).  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - others  
**City of event:** Turkey  
**Date of event:** 2010  
**End date:** 2010  
Fernández-Gracia, Juan.
- 36** **Title of the work:** Update rules and interevent time distributions: Slow ordering vs. no ordering in the Voter Model.  
**Name of the conference:** TWCS'2010 - Turunc Workshop on Complex Systems 2010, ITAP (Turunc, Marmaris, Turkey).  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - oral communication  
**City of event:** Turunç, Turkey  
**Date of event:** 2010  
**End date:** 2010  
Fernández Gracia, Juan; M. Eguíluz, Víctor; San Miguel, Maxi.
- 37** **Title of the work:** Update rules in agent based models  
**Name of the conference:** International Workshop on Living Organisms in Flows: From Small-scale Turbulence to Geophysical Flows (Orflow10)  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** 'Participatory - poster  
**City of event:** Palma de Mallorca, Spain  
**Date of event:** 2010  
**End date:** 2010  
Fernández-Gracia, Juan; M. Eguíluz, Víctor; San Miguel, Maxi.
- 38** **Title of the work:** Updating rules in social simulations  
**Name of the conference:** ROBUST: Conference on Emergence and Design of Robustness: General Principles and Applications to Biological, Social and Industrial Networks  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** 'Participatory - poster  
**City of event:** Spain  
**Date of event:** 2010  
**End date:** 2010  
Fernández-Gracia, J.; Eguíluz V.M.; San Miguel M.
- 39** **Name of the conference:** 150 Years after Darwin: From Molecular Evolution to Language (Palma de Mallorca)  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Organizing committee  
**City of event:** Palma de Mallorca, Spain  
**Date of event:** 2009  
**End date:** 2009  
Castello, Xavi; Hernandez-Garcia, Emilio; Herrada, E. Alejandro; Lopez, Cristobal; Patriarca, Marco; San Miguel, Maxi; Tugrul, Murat; Vaz Martins, Teresa; Fernandez Gracia, Juan; Vazquez, Federico.



- 40** **Name of the conference:** A Topological Approach To Cultural Dynamics. (Barcelona)  
**Type of event:** Conference **Geographical area:** International  
**Type of participation:** Participatory - others  
**City of event:** Barcelona, Spain  
**Date of event:** 2009  
**End date:** 2009  
Juan Fernández Gracia.

### Other dissemination activities

- 1** **Title of the work:** Quo Vadis? Modelos de movilidad humana  
**Name of the event:** Pint of Science  
**Type of event:** Conferences given  
**City of event:** Palma de Mallorca, Balearic Islands, Spain  
**Date of event:** 15/05/2018  
**Organising entity:** Pint of Science Palma de Mallorca  
**City organizing entity:** Palma de Mallorca, Balearic Islands, Spain
- 2** **Title of the work:** Representative of the IFISC at the science fair of the Balearic Islands in Ibiza (IFISC and complex systems).  
**Name of the event:** Science Fair of the Balearic Islands  
**Type of event:** Fairs and exhibitions  
**City of event:** Ibiza, Balearic Islands, Spain  
**Date of event:** 07/04/2011  
**Organising entity:** Govern de les Illes Balears **Type of entity:** State agency
- 3** **Title of the work:** SCIT10 Week of science 2010. IFISC goes to Menorca with an exhibition called 'IFISC and complex systems' and another one called '50 years of the laser' (Mahón, Menorca).  
**Name of the event:** IFISC and complex systems' and another one called '50 years of the laser'  
**Type of event:** Fairs and exhibitions  
**City of event:** Mahón, Balearic Islands, Spain  
**Date of event:** 11/11/2010  
**Organising entity:** IFISC **Type of entity:** University Research Institute
- 4** **Title of the work:** Representative of the IFISC-OSA Solar Car Race in Palma de Mallorca for the World Environmental Day  
**Name of the event:** World Environmental day Solar Car Race  
**Type of event:** Fairs and exhibitions  
**City of event:** Palma de Mallorca, Balearic Islands, Spain  
**Date of event:** 05/06/2010  
**Organising entity:** IFISC-OSA studen chapter **Type of entity:** University Research Institute
- 5** **Title of the work:** Representative of IFISC at the Balearic Islands Science Fair  
**Name of the event:** Fira de la Ciència de les Illes Balears  
**Type of event:** Fairs and exhibitions  
**City of event:** Palma de Mallorca, Balearic Islands, Spain  
**Date of event:** 13/05/2010  
**Organising entity:** Govern de les Illes Balears **Type of entity:** State agency  
**City organizing entity:** Palma de Mallorca, Balearic Islands, Spain





## R&D management and participation in scientific committees

### Scientific, technical and/or assessment committees

- 1** **Committee title:** PC member CompleNet 2020 (11th International Conference on Complex Networks)
- 2** **Committee title:** PC member ENIC'17 (4th European Network Intelligence Conference 2017)
- 3** **Committee title:** PC member NetSci X 2016 (International School and Conference on Network Science)
- 4** **Committee title:** PC member SBP-BRiMS 2019 (2019 International Conference on Social Computing, Behavioral-Cultural Modeling, Prediction and Behavior Representation in Modeling and Simulation)
- 5** **Committee title:** PC member SBP-BRiMS 2020 (2020 International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction and Behavior Representation in Modeling and Simulation)

## Other achievements

### Stays in public or private R&D centres

- 1** **Entity:** Harvard T.H. Chan School of Public Health  
**City of entity:** Boston, United States of America  
**Start-End date:** 31/05/2019 - 07/06/2019 **Duration:** 7 days  
**Goals of the stay:** Guest  
**Provable tasks:** Work with Dr. JP Onnela on statistical network theory and with Dr. Caroline O Buckee on network epidemiology.
- 2** **Entity:** King Abdullah University of Science and Technology **Type of entity:** University  
**Faculty, institute or centre:** Red Sea Research Center  
**City of entity:** Thuwal, Saudi Arabia  
**Start-End date:** 03/05/2018 - 09/05/2018 **Duration:** 6 days  
**Goals of the stay:** Guest  
**Provable tasks:** Work on animal movement ecology with Prof. Carlos M. Duarte.
- 3** **Entity:** University of Western Australia  
**City of entity:** Perth, Australia  
**Start-End date:** 08/02/2018 - 19/02/2018 **Duration:** 11 days  
**Goals of the stay:** Guest  
**Provable tasks:** Work on marine animal movement with Dr. Ana M.M. Sequeira.



- 4** **Entity:** King Abdullah University of Science and Technology  
**Type of entity:** University  
**Faculty, institute or centre:** Red Sea Research Center  
**City of entity:** Thuwal, Saudi Arabia  
**Start-End date:** 05/05/2017 - 11/05/2017  
**Duration:** 6 days  
**Goals of the stay:** Guest  
**Provable tasks:** Work on animal movement ecology with Prof. Carlos M. Duarte.
- 5** **Entity:** Telenor  
**Type of entity:** Business  
**City of entity:** Oslo, Norway  
**Start-End date:** 07/12/2015 - 11/12/2015  
**Duration:** 5 days  
**Goals of the stay:** Guest  
**Provable tasks:** Work on digital epidemiology using CDR data.
- 6** **Entity:** Harvard University  
**Type of entity:** University  
**Faculty, institute or centre:** Harvard School of Public Health  
**City of entity:** Boston, United States of America  
**Start-End date:** 03/05/2011 - 30/07/2011  
**Duration:** 88 days  
**Goals of the stay:** PhD Student  
**Provable tasks:** Develop analysis methods for patient transfers between hospitals and the spread of diseases

## Obtained grants and scholarships

- 1** **Name of the grant:** UIB postdoctoral fellow  
**Aims:** Post-doctoral  
**Awarding entity:** University of the Balearic Islands  
**Conferral date:** 01/03/2019  
**Duration:** 2 years  
**End date:** 28/02/2021  
**Entity where activity was carried out:** INSTITUTO DE FISICA INTERDISCIPLINAR Y SISTEMAS COMPLEJOS  
**Faculty, institute or centre:** IFISC
- 2** **Name of the grant:** FPI  
**Aims:** Pre-doctoral  
**Awarding entity:** Govern de les Illes Balears  
**Type of entity:** State agency  
**Conferral date:** 01/10/2009  
**Duration:** 4 years  
**End date:** 01/10/2013  
**Entity where activity was carried out:** Universidad de las Islas Baleares
- 3** **Name of the grant:** Collaboration scholarship  
**Aims:** Research assistant during end of the degree  
**Awarding entity:** MEPSYD  
**Type of entity:** State agency  
**Conferral date:** 01/01/2009  
**Duration:** 6 months  
**End date:** 30/06/2009  
**Entity where activity was carried out:** Universitat de Barcelona  
**Faculty, institute or centre:** Facultat de Física, department of fundamental physics.



## Prizes, mentions and distinctions

**Description:** Best paper award

**Awarding entity:** SBP-BRIMS

**Type of entity:** University

**City awarding entity:** Washington DC, United States of America

**Conferral date:** 15/06/2017

## Obtained accreditations/recognitions

**Description:** Assistant professor

**Accrediting entity:** AQUIB

**City accrediting entity:** Palma de Mallorca, Balearic Islands, Spain

**Date of recognition:** 12/02/2019

## Summary of other achievements

- 1 Description of the achievement:** Heavy Equipment: Harvard-MIT computation cluster; Casual user
- 2 Description of the achievement:** Heavy Equipment: Nuredduna: cluster de computació a IFISC; Regular user; 01/10/2009