



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.

I have 29 publications, of which 3 are book chapters. 21 of them are in Q1 journals (8 in D1) and I have been cited 640 times and have an h-index of 12 (WOS). My work has been featured over 20 times in scientific blogs and news outlets. The multidisciplinary nature of my work is reflected by the journals where I have published: generalists (2 PNAS, 1 Plos ONE, 1 Science Advances, 7 Scientific Reports), physics (1 PRL, 2 PRE, 1 Frontiers in physics), ecology (1 TREE, 1 Ecological Applications, 1 Biological Conservation) and others that include medicine (Frontiers in Medicine), marine science (Frontiers in Marine Science), complex systems (Complexity) and even forensic science (Forensic Science International). I have made 41 contributions to congresses and workshops (25 oral, 16 poster). The congresses again reflect the interdisciplinarity of my work, as I have participated in congresses about network science (Costnet, Netsci, Complex Networks, Network Frontiers), physics (APS, DPG), complex systems (Crossroads in Complex Systems, International Conference on Complex Systems, BIFI, Orflow, Robust), social sciences (SBP-BRIMS, WEHIA, Sunbelt, CEF) and others at the interface between physics and other disciplines (Physics & Ecology at the Scientific Meetings in the Mediterranean, Econophysics workshop of the Spanish Econophysics Society, now COMSOTEC). I received the best paper award at SBP-BRIMS 2017.

I have been a postdoctoral fellow at IMEDEA (UIB-CSIC) for 6 months in 2014; at Harvard T.H. Chan School of Public Health for 2 years through project MIDAS (NIH) in 2015 and 2016; and since 2017 at IFISC (CSIC-UIB) through international (CAASE) and national (SPASSIM) projects, as well as with a competitive postdoctoral contract from UIB (2019-2021) and the excellence postdoctoral program of the government of the Balearic Islands, Vicenç Mut (2021-now).

I have participated as researcher in 9 projects: 3 international ones (MIDAS, CAASE, LASAGNE), 3 national ones (SPASSIM, MODASS, FISICOS), a regional one (Física Interdisciplinar) and 2 small regional outreach projects (EL IFISC - Una introducción a la Física de los Sistemas Complejos:Caos y Patrones, El IFISC y el paradigma de los sistemas complejos).

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I have made several short stays (1 to 4 weeks) at the Harvard T.H. Chan School of Public Health (Boston, USA), at King Abdullah University of Science and Technology (Thuwal, Saudi Arabia), the University of Western Australia (Perth, Australia), Telenor (Oslo, Norway), the Human Nature Lab (Cambridge, USA) and the COSIN3 group at Universitat Oberta de Catalunya (Castelldefels, Spain).

I have participated actively in outreach activities such as the Pint of Science, the Week of Science and Technology and the Science Fair of the Balearic Islands when there was one.

I am currently codirecting the PhD thesis of Ms. Somaye Sheykhali. I have also codirected 2 master thesis. I have served as external evaluator for the Dutch Research Council.

I am certified as 'contratado doctor' by the regional quality agency of the Balearic Islands (AQUIB).



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: 29

Open access publications: 15

Information extracted from the ISI Web of Science on January 21st 2022:

Total number of citations: 606

Average number of citations/year in the period 2017-2021: 64.8

Q1 publications : 18

D1 publications: 8

h index : 12

Information extracted from the Google scholar profile on January 21st 2022 (<https://scholar.google.com/citations?hl=es&user=kVmTOj4AAAAJ>):

Total number of citations: 934

h index: 14

i10 index: 19



Juan Fernández Gracia

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 Name: **Juan**
 DNI: **47732959R**
 ORCID: **0000-0001-9728-7666**
 ScopusID: **35185080200**
 ResearcherID: **S-4344-2018**
 Date of birth: **22/03/1984**
 Gender: **Male**
 Nationality: **Spain**
 Country of birth: **Spain**
 Aut. region/reg. of birth: **Catalonia**
 Contact province: **Balearic Islands**
 City of birth: **Barcelona**
 Contact address: **C/ Bisbe Cabanelles 14, 6 2**
 Postcode: **07005**
 Contact country: **Spain**
 Contact aut. region/reg.: **Balearic Islands**
 Contact city: **Palma de Mallorca**
 Land line phone: **(+34) 971259518**
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 Personal web page: **<https://ifisc.uib-csic.es/en/people/juan-fernandez-gracia/>**

Current professional situation

Employing entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Department: Instituto de física interdisciplinar y sistemas complejos (IFISC), UIB-CSIC
Professional category: Postdoctoral researcher
City employing entity: Palma de Mallorca, Balearic Islands, Spain
Phone: (+34) 971259518
Start date: 01/02/2017
Type of contract: Grant-assisted student (pre or post-doctoral, others) **Dedication regime:** Full time
Primary (UNESCO code): 229900 - Other physical specialities (specify)
Performed tasks: Complex Systems approach to movement ecology, spreading processes, social dynamics, complex networks.
Identify key words: Net dynamics; Percolation; Econophysics; Simulations outside data analysis; Nets; Natural sciences and health sciences

Previous positions and activities

	Employing entity	Professional category	Start date
1	Harvard T.H. Chan School of Public Health	Postdoctoral researcher	15/01/2015



	Employing entity	Professional category	Start date
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
City employing entity: United States of America
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
Department: Institut Mediterrani d'Estudis Avançats, Institut Mediterrani d'Estudis Avançats
City employing entity: Balearic Islands, Spain
Professional category: Postdoctoral researcher
Start-End date: 01/07/2014 - 31/12/2014 **Duration:** 6 months
Type of contract: Temporary
Dedication regime: Full time



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: 16/09/2021
Entity: Universidad de las Islas Baleares
Faculty, institute or centre: Facultad de Ciencias
End date: 31/01/2022
Type of entity: University
- 2** **Name of the course:** Statistical physics
University degree: Physics degree
Start date: 15/02/2021
Entity: Universidad de las Islas Baleares
Faculty, institute or centre: Facultad de Ciencias
End date: 30/06/2021
Type of entity: University
- 3** **Name of the course:** Physics I
University degree: Chemistry degree
Start date: 16/09/2020
Entity: Universidad de las Islas Baleares
Faculty, institute or centre: Facultad de Ciencias
End date: 31/01/2021
Type of entity: University
- 4** **Name of the course:** Physics I
University degree: Chemistry degree
Start date: 16/09/2019
Entity: Universidad de las Islas Baleares
Faculty, institute or centre: Facultad de Ciencias
End date: 31/01/2020
Type of entity: University
- 5** **Name of the course:** Complex Networks
University degree: Complex Systems Master
Start date: 02/10/2018
Entity: Universidad de las Islas Baleares
Faculty, institute or centre: IFISC
End date: 30/03/2019
Type of entity: University
- 6** **Name of the course:** Complex Networks
University degree: Complex Systems Master
Start date: 02/10/2017
Entity: Universidad de las Islas Baleares
Faculty, institute or centre: IFISC
End date: 30/03/2018
Type of entity: University
- 7** **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
Entity: INSTITUTO DE FISICA INTERDISCIPLINAR Y SISTEMAS COMPLEJOS
End date: 19/09/2014
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

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. Eguíluz

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

1 H index: 12

Date of application: 21/01/2022

Fuente de Índice H: WOS

2 H index: 14

Date of application: 26/01/2022

Fuente de Índice H: GOOGLE SCHOLAR

Publications, scientific and technical documents

1 Amanda E. Bates; Richard B. Primack; Brandy S. Biggar; Tomas J. Bird; Mary E. Clinton; Rylan J. Command; Cerren Richards; Marc Shellard; Nathan R. Gerald; Valeria Vergara; Orlando Acevedo-Charry; Zuania Colón-Piñeiro; David Ocampo; Natalia Ocampo-Peñuela; Lina M. Sánchez-Clavijo; Cristian M. Adamescu; Sorin Cheval; Tudor Racoviceanu; Matthew D. Adams; Egide Kalisa; Vincent Z. Kuuire; Vikram Aditya; Pia Anderwald; Samuel Wiesmann; Sonja Wipf; Gal Badihi; Matthew G. Henderson; Hanspeter Loetscher; Katja Baerenfaller; Lisandro Benedetti-Cecchi; Fabio Bulleri; Iacopo Bertocci; Elena Maggi; Luca Rindi; Chiara Ravaglioli; Kristina Boerder; Julien Bonnel; Delphine Mathias; Philippe Archambault; Laurent Chauvaud; Camrin D. Braun; Simon R. Thorrold; Jacob W. Brownscombe; Jonathan D. Midwood; Christine M. Boston; Jill L. Brooks; Steven J. Cooke; Victor China; Uri Roll; Jonathan Belmaker; Assaf Zvuloni; Marta Coll; Miquel Ortega; Brendan Connors; Lisa Lacko; Dinusha R.M. Jayathilake; Mark J. Costello; Theresa M. Crimmins; LoriAnne Barnett; Ellen G. Denny; Katharine L. Gerst; R.L. Marsh; Erin E. Posthumus; Reilly Rodriguez; Alyssa Rosemartin; Sara N. Schaffer; Jeff R. Switzer; Kevin Wong; Susan J. Cunningham; Petra Sumasgutner; Arjun Amar; Robert L. Thomson; Miqkayla Stofberg; Sally Hofmeyr; Jessleena Suri; Rick D. Stuart-Smith; Paul B. Day; Graham J. Edgar; Antonia T. Cooper; Fabio Cabrera {De Leo}; Grant Garner; Paulson G. {Des Brisay}; Michael B. Schrimpf; Nicola Koper; Michael S. Diamond; Ross G. Dwyer; Cameron J. Baker; Craig E. Franklin; Ron Efrat; Oded Berger-Tal; Ohad Hatzofe; Víctor M. Eguíluz; Jorge P. Rodríguez; Juan Fernández-Gracia; David Elustondo; Vicent Calatayud; Philina A. English; Stephanie K. Archer; Sarah E. Dudas; Dana R. Haggarty; Austin J. Gallagher; Brendan D. Shea; Oliver N. Shipley; Ben L. Gilby; Jasmine Ballantyne; Andrew D. Olds; Christopher J. Henderson; Thomas A. Schlacher; William D. Halliday; Nicholas A.W. Brown; Mackenzie B. Woods; Sigal Balshine; Francis Juanes; Mitchell J. Rider; Patricia S. Albano; Neil Hammerschlag; Graeme C. Hays; Nicole Esteban; Yuhang Pan; Guojun He; Takanao Tanaka; Marc J.S. Hensel; Robert J. Orth; Christopher J. Patrick; Jonas Hentati-Sundberg; Olof Olsson; Margot L. Hessing-Lewis; Nicholas D. Higgs; Mark A. Hindell; Clive R. McMahon; Rob Harcourt; Christophe Guinet; Sarah E. Hirsch; Justin R. Perrault; Shelby R. Hoover; Jennifer D. Reilly; Catherine Hobaiter; Thibaud Gruber; Charlie Huveneers; Vinay Udyawer; Thomas M. Clarke; Laura P. Kroesen; David S. Hik; Seth G. Cherry; Justin A. {Del Bel Belluz}; Jennifer M. Jackson; Shengjie Lai; Clayton T. Lamb; Gregory D. LeClair; Jeffrey R. Parmelee; Matthew W.H. Chatfield; Cheryl A. Frederick; Sangdon Lee; Hyomin Park; Jaein Choi; Frédéric LeTourneau; Thierry Grandmont; Frédéric Dulude de-Broin; Joël Bêty; Gilles Gauthier; Pierre Legagneux; Jesse S. Lewis; Jeffrey Haight; Zhu Liu; Jarod P. Lyon; Robin Hale; Dallas D'Silva; Ian MacGregor-Fors; Enrique Arbeláez-Cortés; Felipe A. Estela; Camilo E. Sánchez-Sarria; Michelle García-Arroyo; Gianni K. Aguirre-Samboní; Juan C. {Franco Morales}; Shahar Malamud; Tal Gavriel; Yehezkel Buba; Shira Salingré; Mai Lazarus; Ruthy Yahel; Yigael Ben Ari; Eyal Miller; Rotem Sade; Guy Lavian; Ziv Birman; Manor Gury; Harel Baz; Ilia Baskin; Alon



Penn; Amit Dolev; Ogen Licht; Tabi Karkom; Sharon Davidzon; Avi Berkovitch; Ofer Yaakov; Raoul Manenti; Emiliano Mori; Gentile Francesco Ficetola; Enrico Lunghi; David March; Brendan J. Godley; Cecilia Martin; Steven F. Mihaly; David R. Barclay; Dugald J.M. Thomson; Richard Dewey; Jeannette Bedard; Aroha Miller; Amber Dearden; Jennifer Chapman; Lauren Dares; Laura Borden; Donna Gibbs; Jessica Schultz; Nikita Sergeenko; Fiona Francis; Amanda Weltman; Nicolas Moity; Jorge Ramírez-González; Gonzalo Mucientes; Alexandre Alonso-Fernández; Itai Namir; Avi Bar-Massada; Ron Chen; Shmulik Yedvab; Thomas A. Okey; Steffen Oppel; Volen Arkumarev; Samuel Bakari; Vladimir Dobrev; Global COVID-19 lockdown highlights humans as both threats and custodians of the environment. *Biological Conservation*. 263, pp. 109175 - 109175. 2021. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0006320721002275>>. ISSN 0006-3207

Type of production: Scientific paper

Format: Journal

- 2** Jorge P. Rodríguez; Juan Fernández-Gracia; Carlos M. Duarte; Xabier Irigoien; Víctor M. Eguíluz. The global network of ports supporting high seas fishing. *Science Advances*. 7 - 9, pp. eabe3470 - eabe3470. 2021. Available on-line at: <<https://www.science.org/doi/abs/10.1126/sciadv.abe3470>>.

Type of production: Scientific paper

Format: Journal

- 3** 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

Position of signature: 2

Total no. authors: 5

Corresponding author: No

- 4** Somaye Sheykhal; 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

Position of signature: 2

Total no. authors: 7

Corresponding author: Yes

- 5** 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

Position of signature: 3

Total no. authors: 8

Corresponding author: No

- 6** 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

Position of signature: 3

Total no. authors: 9

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** 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

Position of signature: 11

Total no. authors: 22

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 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

Position of signature: 1

Total no. authors: 2

Corresponding author: Yes

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

9 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. Hüeckstädt; 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

Position of signature: 33

Total no. authors: 61

Corresponding author: No

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

10 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

Position of signature: 11

Total no. authors: 18

Corresponding author: No

Impact source: ISI

Category: ECOLOGY -- SCIE



Impact index in year of publication: 4.248
Position of publication: 28

Journal in the top 25%: Yes
No. of journals in the cat.: 168

- 11** Somaye Sheykhal; Juan Fernández Gracia; Traveset, Anna; Víctor M. Eguíluz. 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
Position of signature: 2
Total no. authors: 4
Format: Journal
Corresponding author: No
- 12** 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
Position of signature: 2
Total no. authors: 3
Impact source: ISI
Impact index in year of publication: 1.895
Position of publication: 36
Format: Journal
Corresponding author: No
Category: PHYSICS, MULTIDISCIPLINARY -- SCIE
Journal in the top 25%: No
No. of journals in the cat.: 81
- 13** 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
Position of signature: 9
Total no. authors: 58
Impact source: ISI
Impact index in year of publication: 9.58
Position of publication: 7
Corresponding author: No
Category: MULTIDISCIPLINARY SCIENCES -- SCIE
Journal in the top 25%: Yes
No. of journals in the cat.: 69
- 14** 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
Position of signature: 2
Total no. authors: 6
Impact source: ISI
Impact index in year of publication: 3.086
Position of publication: 13
Format: Journal
Corresponding author: No
Category: MARINE & FRESHWATER BIOLOGY -- SCIE
Journal in the top 25%: Yes
No. of journals in the cat.: 108

- 15** 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

Position of signature: 1

Total no. authors: 2

Impact source: ISI

Impact index in year of publication: 2.591

Position of publication: 21

Format: Journal

Corresponding author: No

Category: MATHEMATICS, INTERDISCIPLINARY APPLICATIONS – SCIE

Journal in the top 25%: Yes

No. of journals in the cat.: 105

- 16** 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

Position of signature: 2

Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 4,122

Position of publication: 12

Format: Journal

Corresponding author: No

Category: Science Edition - MULTIDISCIPLINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 64

- 17** 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

Position of signature: 1

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 4,122

Position of publication: 12

Format: Journal

Corresponding author: Yes

Category: Science Edition - MULTIDISCIPLINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 64

- 18** Jorge P. Rodríguez; Juan Fernández-Gracia; Michele Thums; Mark A. Hindell; Ana M. M. Sequeira; Mark G. Meekan; 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

Position of signature: 2

Total no. authors: 13

Impact source: ISI

Impact index in year of publication: 4,122

Position of publication: 12

Format: Journal

Corresponding author: No

Category: Science Edition - MULTIDISCIPLINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 64

- 19** 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 **Format:** Journal
Position of signature: 2
Total no. authors: 4 **Corresponding author:** No
Impact source: ISI **Category:** MULTIDISCIPLINARY SCIENCES
Impact index in year of publication: 4.259 **Journal in the top 25%:** Yes
Position of publication: 10 **No. of journals in the cat.:** 64
- 20** 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 **Format:** Journal
Position of signature: 3
Total no. authors: 3 **Corresponding author:** No
Impact source: ISI **Category:** MULTIDISCIPLINARY SCIENCES
Impact index in year of publication: 3.057 **Journal in the top 25%:** Yes
Position of publication: 11 **No. of journals in the cat.:** 63
- 21** 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
Position of signature: 1
Total no. authors: 5 **Corresponding author:** Yes
Impact source: ISI **Category:** PHYSICS, MULTIDISCIPLINARY
Impact index in year of publication: 7.512 **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 78
- 22** 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 **Format:** Journal
Position of signature: 1
Total no. authors: 4 **Corresponding author:** Yes
Impact source: ISI **Category:** PHYSICS, FLUIDS & PLASMAS
Impact index in year of publication: 2.313 **Journal in the top 25%:** No
Position of publication: 10 **No. of journals in the cat.:** 31
Impact source: ISI **Category:** PHYSICS, MATHEMATICAL
Impact index in year of publication: 2.313 **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 55

- 23** 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
Impact source: ISI
Impact index in year of publication: 2.26
Position of publication: 10
Impact source: ISI
Impact index in year of publication: 2.26
Position of publication: 6
Format: Journal
Corresponding author: Yes
Category: PHYSICS, FLUIDS & PLASMAS
Journal in the top 25%: No
No. of journals in the cat.: 31
Category: PHYSICS, MATHEMATICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 55
- 24** 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
Position of signature: 1
Total no. authors: 2
Format: Journal
Corresponding author: No
- 25** 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
Position of signature: 1
Total no. authors: 5
Format: Book
Corresponding author: Yes
- 26** 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
Position of signature: 2
Total no. authors: 4
Format: Book
Corresponding author: No
- 27** 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
Position of signature: 1
Total no. authors: 3
Format: Book
Corresponding author: Yes
- 28** 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
Position of signature: 2
Total no. authors: 2
Impact source: ISI
Impact index in year of publication: 1.99
Format: Journal
Corresponding author: No
Category: MEDICINE, LEGAL -- SCIE
Journal in the top 25%: No

**Position of publication:** 5**No. of journals in the cat.:** 17

- 29** 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
Position of signature: 3
Total no. authors: 7 **Corresponding author:** No
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:** Dynamical models from microbial communities abundance data
Name of the conference: COMPLEX NETWORKS 2021 The 10th International Conference on Complex Networks and their Applications
Type of event: Conference
City of event: Madrid, Community of Madrid, Spain
Date of event: 30/11/2021
End date: 02/12/2021
- 2** **Title of the work:** Inferring leader-follower behavior from presence data
Name of the conference: ECONET 2021 V Symposium on Ecological Networks
Type of event: Conference
Corresponding author: Yes
City of event: Palma de Mallorca, Balearic Islands, Spain
Date of event: 10/11/2021
End date: 12/11/2021
Organising entity: Universidad de las Islas Baleares **Type of entity:** University
City organizing entity: Palma de Mallorca, Spain
Fernández Gracia; Rodríguez; Eguíluz.
- 3** **Title of the work:** Ocean microbiome ecological dynamics model from longitudinal abundance data
Name of the conference: ECONET 2021 V Symposium on Ecological Networks
Type of event: Conference
Corresponding author: Yes
City of event: Palma de Mallorca, Balearic Islands, Spain
Date of event: 10/11/2021
End date: 12/11/2021
Organising entity: Universidad de las Islas Baleares **Type of entity:** University
City organizing entity: Palma de Mallorca, Spain
Sheykhali; Fernández Gracia; Irigoien; Duarte; Eguíluz.
- 4** **Title of the work:** OTU ecological dynamics models from longitudinal abundance data
Name of the conference: Networks 2021: a Joint Sunbelt and Netsci Conference
Type of event: Conference
Corresponding author: Yes

City of event: Virtual,
Date of event: 05/07/2021
End date: 10/07/2021
Organising entity: INSNA and NSS
Sheykhali; Fernández Gracia; Duarte; M Eguíluz.

5 **Title of the work:** The global network of ports supporting high seas fishing
Name of the conference: Networks 2021: a Joint Sunbelt and Netsci Conference
Type of event: Conference
Corresponding author: Yes
City of event: Virtual,
Date of event: 05/07/2021
End date: 10/07/2021
Organising entity: INSNA and NSS
Rodríguez; Fernández Gracia; Irigoien; Duarte; M Eguíluz.

6 **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."

7 **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."

8 **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".



- 9** **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."
- 10** **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."
- 11** **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."
- 12** **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 Sheykhali; Juan Fernández Gracia; Víctor M. Eguíluz. "Cooccurrence plasticity increases modularity and stability in bipartite networks."
- 13** **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."

- 14** **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."
- 15** **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
- 16** **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.
- 17** **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.
- 18** **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.

- 19** **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.
- 20** **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.
- 21** **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.
- 22** **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.
- 23** **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.



- 24** **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.
- 25** **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.
- 26** **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.
- 27** **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.
- 28** **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.
- 29** **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.

30 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.

31 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.

32 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.

33 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.

34 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.



- 35** **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.
- 36** **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.
- 37** **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.
- 38** **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.
- 39** **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.
- 40** **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.



- 41** **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.
- 42** **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.
- 43** **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.
- 44** **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.
- 45** **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 student chapter
- 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:** Organising committee ECONET 2021 V Symposium on Ecological Networks
- 2** **Committee title:** PC member CCS 2021 Conference on Complex Systems 2021
- 3** **Committee title:** PC member CompleNet 2020 (11th International Conference on Complex Networks)
- 4** **Committee title:** PC member CompleNet Live 2021 2021 Online Conference on Complex Networks
- 5** **Committee title:** PC member ENIC'17 (4th European Network Intelligence Conference 2017)
- 6** **Committee title:** PC member NetSci X 2016 (International School and Conference on Network Science)
- 7** **Committee title:** PC member SBP-BRiMS 2019 (2019 International Conference on Social Computing, Behavioral-Cultural Modeling, Prediction and Behavior Representation in Modeling and Simulation)
- 8** **Committee title:** PC member SBP-BRiMS 2020 (2020 International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction and Behavior Representation in Modeling and Simulation)
- 9** **Committee title:** PC member SBP-BRiMS 2021 (2021 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:** Universitat Oberta de Catalunya **Type of entity:** University
Faculty, institute or centre: COSIN3
City of entity: Castelldefels, Catalonia, Spain
Start-End date: 07/03/2022 - 04/04/2022 **Duration:** 1 month
Goals of the stay: Guest
Provable tasks: Study the frontier between ecology and social information systems.
- 2** **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.
- 3** **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.
- 4** **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.
- 5** **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.
- 6** **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.



- 7** **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:** Vicenç Mut postdoctoral fellow
Aims: Post-doctoral
Awarding entity: Government of the Balearic Islands
Conferral date: 01/03/2021 **Duration:** 2 years
End date: 28/02/2023
Entity where activity was carried out: Consejo Superior de Investigaciones Científicas
Faculty, institute or centre: IFISC
- 2** **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
- 3** **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
- 4** **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