



José Ángel Capitán Gómez

Generated from: Editor CVN de FECYT Date of document: 06/03/2019

v 1.4.0

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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.

José A. Capitán graduated in Physics in July, 2000 (special award, 'Premio extraordinario', Complutense University of Madrid). After working (i) in the private company GMV S.A. as a software developer in projects funded by the European Space Agency, (ii) as a high school teacher of mathematics in the period 2002-2007 (civil servant, 'Cuerpo de Profesores de Enseñanza Secundaria'), and (iii) as a part-time professor in the Department of Mathematics, Carlos III University of Madrid (2004-2006), he begun his PhD in February, 2007 at the aforementioned department, under the supervision of José A. Cuesta. In December, 2010, he got his PhD with special award ('Premio extraordinario de Doctorado', Carlos III university of Madrid) and 'Doctor Europeus' mention. During his PhD he worked on stochastic processes applied to the mathematical modeling of eco-evolutionary systems following a multidisciplinary approach.

In 2011 he joined Alex Arenas' lab at Universitat Rovira i Virgili (Tarragona) as a postdoctoral researcher, working in complex networks applied to ecology and linguistics (efficient navigation on semantic networks, extraction of semantic classifications in linguistic corpus), using empirical data to tackle multidisciplinary modeling approaches. From January, 2012, to December, 2014, he has worked as a post-doctoral researcher in the Spanish Council for Scientific Research (CSIC) thanks to a 'Juan de la Cierva' fellowship granted in December, 2011. In these three years he collaborated with Susanna Manrubia in analyzing the spatial distribution of global linguistic diversity. During his post-doctoral stage, he has published works that relate linguistic and biological diversity, with important implications in the management and sustainability of biological and cultural diversity. His publications have appeared in highimpact multidisciplinary journals like Physical Review Letters, Proceedings of the Royal Society B, PLoS ONE, Physical Review E and Journal of Theoretical Biology. He has a remarkable productivity at the post-doctoral stage, having contributed a total of 22 publications (13 of them within the last 5 years). Currently, he has three manuscripts under review. It is also remarkable the overall number of citations after 5 years of finishing his PhD: his publications have been cited 260 times (176 citations within the last 5 years). Additional details can be found at Google citations, as well as at Researcher ID (D-8669-2012) and ORCID (0000-0002-6245-0088) web pages. He has also presented 28 communications in conferences (3 invited) and 5 seminars (3 of which were invited). Of the total, 18 communications were presented within the last 5 years. This year he obtained a Fulbright grant to stay three months in 2017 at the University of Chicago, to join the lab coordinated by Stefano Allesina.

His scientific contributions belong to different fields, proving he is a skillful investigator able to conduct multidisciplinary research. Since his PhD and during his post-doctoral stage, he carries out an intense research activity studying complex networked systems, with applications to ecological, evolutionary and social systems. Although the studied topics are diverse, they share







a common spirit: the application of stochastic processes, complex network theory, non-linear dynamics, computer simulation, big-data analysis and statistics to mathematically describe natural systems under a complex-systems theoretical perspective.





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.

José A. Capitán has a remarkable productivity at the post-doctoral stage, having contributed a total of 25 publications (24 of which are JCR articles, and 23 are classified in the first quartile of their area). Currently, he has three manuscripts under review. It is also remarkable the overall number of citations after 5 years of finishing his PhD: his publications have been cited 334 times (Google citations). Additional details can be found at Researcher ID (D-8669-2012) and ORCID (0000-0002-6245-0088) web pages. He has also presented 39 communications in conferences and seminars, 6 of which were invited. His H-index is equal to 12 (Google citations).







José Ángel Capitán Gómez

Surname(s): Capitán Gómez
Name: José Ángel

ORCID: **0000-0002-6245-0088**

Personal web page: http://www.researcherid.com/rid/D-8669-2012

Current professional situation

Employing entity: Universidad Politécnica de **Type of entity:** University

Madrid

Department: Building Engineering School (Escuela Técnica Superior de Edificación)

Professional category: Lecturer (Profesor Educational Management (Yes/No): Yes

Ayudante Doctor)

City employing entity: Madrid, Community of Madrid, Spain

Phone: (34) 913367594 **Start date:** 24/09/2015

Type of contract: Temporary employment Dedication regime: Full time

contract

Primary (UNESCO code): 120808 - Stochastic processes; 120903 - Data analysis; 240400 -

Biomathematics

Performed tasks: Teaching duties (statistics, algebra, calculus, programming) for graduate students in

engineering. Research activities in applied mathematics.

Identify key words: Biology and other natural sciences; Stocastic procedures; Physics - Statistical

mechanics; Physics - Complex systems; Biodiversity characterisation; Ecology

Field of management activity: Public Research Body

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad de Alcalá	Lecturer (Profesor Ayudante Doctor)	14/09/2015
2	Centro de Estudios Avanzados de Blanes	Postdoctoral researcher	01/01/2015
3	Centro Nacional de Biotecnología	'Juan de la Cierva' postdoctoral researcher	10/06/2014
4	Centro de Astrobiología	'Juan de la Cierva' postdoctoral researcher	01/01/2012
5	Universitat Rovira i Virgili	Postdoctoral researcher	01/02/2011
6	Universidad Carlos III de Madrid	Graduate researcher (Personal Investigador de Apoyo)	01/02/2007
7	Consejería de Educación	Mathematics High School teacher	01/09/2002
8	Universidad Carlos III de Madrid	Part-time professor (Profesor Asociado)	16/02/2004
9	Colegio los Angeles, S. Coop.	High School teacher	01/09/2001
10	Grupo de Mecánica del Vuelo	Software developer	22/11/2000





Educational Management (Yes/No): No

Educational Management (Yes/No): No

Educational Management (Yes/No): No



1 Employing entity: Universidad de Alcalá Type of entity: University **Department:** Department of Physics and Mathematics, Faculty of Sciences

Professional category: Lecturer (Profesor Educational Management (Yes/No): Yes

Ayudante Doctor)

Start-End date: 14/09/2015 - 23/09/2015 **Duration:** 10 days

Type of contract: Temporary employment contract

Dedication regime: Full time

Applicability in teaching and/or research: Teaching duties in statistics (practical courses)

2 Employing entity: Centro de Estudios Type of entity: State agency

Avanzados de Blanes

Professional category: Postdoctoral researcher Educational Management (Yes/No): No

Phone: (+34) 972 336101

Start-End date: 01/01/2015 - 13/09/2015 **Duration:** 8 months - 13 days

Type of contract: Temporary employment contract

Dedication regime: Full time

Applicability in teaching and/or research: Stochastic processes applied to characterize the spatial distribution of species across continental scales. Development of site-occupancy stochastic models in biodiversity. Application to macro-ecological data.

3 Employing entity: Centro Nacional de Type of entity: State agency

Biotecnología

Professional category: 'Juan de la Cierva'

postdoctoral researcher

Start-End date: 10/06/2014 - 31/12/2014 Duration: 5 months - 21 days

Type of contract: Grant-assisted student (pre or post-doctoral, others)

Applicability in teaching and/or research: Mathematical modeling of complex evolutionary systems

arising in biological and social sciences.

4 Employing entity: Centro de Astrobiología Type of entity: State agency

Professional category: 'Juan de la Cierva'

postdoctoral researcher

Start-End date: 01/01/2012 - 09/06/2014 Duration: 2 years - 6 months - 9

Type of contract: Grant-assisted student (pre or post-doctoral, others)

Applicability in teaching and/or research: Mathematical modeling of complex evolutionary systems arising in biological and social sciences. Conferral decision at 'Resolución de 5 de diciembre de 2011, Secretaría de Estado de Investigación del Ministerio de Ciencia e Innovación'.

5 Employing entity: Universitat Rovira i Virgili Type of entity: University

Start-End date: 01/02/2011 - 31/12/2011 **Duration:** 11 months

Type of contract: Temporary employment contract

Applicability in teaching and/or research: Mathematical description of networked systems in ecological and social sciences. Topological structure of ecological networks. Semantic navigation on networked structures.

6 Employing entity: Universidad Carlos III de Type of entity: University

Madrid

Professional category: Graduate researcher

(Personal Investigador de Apoyo)

Start-End date: 01/02/2007 - 31/01/2011 **Duration:** 4 years **Type of contract:** Grant-assisted student (pre or post-doctoral, others)







Applicability in teaching and/or research: PhD studies: Application of complex systems theory (complex networks, stochastic processes, nonlinear dynamics) to mathematical modeling of ecological and evolutionary phenomena. Conferral decision at BOCM 7040/2006, 16/12/2006.

7 Employing entity: Consejería de Educación Professional category: Mathematics High

School teacher

Start-End date: 01/09/2002 - 31/01/2007

Type of contract: Civil servant

Type of entity: Regional public body Educational Management (Yes/No): Yes

Duration: 4 years - 4 months

Applicability in teaching and/or research: Teaching activity of mathematics in high-school education (Enseñanza Secundaria y Bachillerato). On a voluntary leave of absence started on 01/02/2007.

8 Employing entity: Universidad Carlos III de

Madrid

Professional category: Part-time professor

(Profesor Asociado)

Start-End date: 16/02/2004 - 30/09/2006

Type of entity: University

Educational Management (Yes/No): Yes

Educational Management (Yes/No): Yes

Duration: 2 years - 7 months - 14

days

Duration: 1 year

Type of contract: Temporary employment contract

Applicability in teaching and/or research: Teaching activity of mathematics in under-graduate

engineering courses (overall number of hours taught: 384)

9 Employing entity: Colegio los Angeles, S. Coop. Type of entity: Business

Professional category: High School teacher

Start-End date: 01/09/2001 - 31/08/2002

Type of contract: Temporary employment contract

Applicability in teaching and/or research: Teaching activity of mathematics in high-school

education (Enseñanza Secundaria)

10 Employing entity: Grupo de Mecánica del Vuelo Type of entity: Business

Professional category: Software developer

Type of contract: Temporary employment contract

Performed tasks: Involved in the European Space Agency project entitled 'Earth Living planet'







Education

University education

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

1 University degree: Higher degree

Name of qualification: Certificate Advanced Studies

Degree awarding entity: Universidad Carlos III de Type of entity: University

Madrid

Date of qualification: 14/06/2006

2 University degree: Certificate

Name of qualification: Certificate of Pedagogical Aptitude

Degree awarding entity: Universidad Complutense Type of entity: University

de Madrid

Date of qualification: 06/07/2001

3 University degree: Higher degree

Name of qualification: Degree in Theoretical Physics (Licenciado en Física, Especialidad Física

Fundamental)

Degree awarding entity: Universidad Complutense Type of entity: University

de Madrid

Date of qualification: 28/07/2000 Average mark: Outstanding Prize: Special award for degree

4 University degree: Certificate

Name of qualification: First Certificate in English

Degree awarding entity: University of Cambridge Type of entity: University

Date of qualification: 01/12/1998

Average mark: Good

Doctorates

Doctorate programme: Ph.D. in Mathematics (Programa Oficial de Doctorado en Ingeniería Matemática)

Degree awarding entity: Universidad Carlos III de Type of entity: University

Madrid

Date of degree: 22/12/2010

DEA awarding entity: Universidad Carlos III de Madrid

Date DEA was awarded: 14/06/2006

European doctorate: Yes Date of certificate: 22/12/2010

Thesis title: Self-organization in biology: From quasi-species to ecosystems

Thesis director: José A. Cuesta

Obtained qualification: Summa cum laude (Sobresaliente cum laude por unanimidad)

Recognition of quality: Yes







Special doctorate award: Yes Date of award: 18/11/2011

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

1 Type of training: Course

Training title: Time series analyses

Awarding entity: Instituto de Ciencias de la Educación Type of entity: University Research Institute

End date: 01/02/2017 Duration in hours: 8 hours

2 Type of training: Course

Training title: Statistics in experimental research

Awarding entity: Instituto de Ciencias de la Educación Type of entity: University Research Institute

End date: 02/06/2016 Duration in hours: 16 hours

3 Type of training: Course

Training title: Computational molecular evolution

Awarding entity: Technical University of Denmark - Type of entity: University

Coursera

End date: 01/09/2013 Duration in hours: 6 hours

4 Type of training: Course

Training title: Summer school "Mathematics and society: Cooperation, social networks and complexity"

Awarding entity: Universidad Complutense de Madrid **Type of entity:** University **End date:** 18/07/2008 **Duration in hours:** 25 hours

5 Type of training: Course

Training title: Summer school "A primer in ecological networks: data and theory"

Awarding entity: University of Parma

Type of entity: University

End date: 20/06/2008

Duration in hours: 15 hours

6 Type of training: Course

Training title: Summer school "SIMUMAT summer school on Complex Systems and Statistics"

Awarding entity: Universidad Autónoma de Madrid

Type of entity: University

End date: 13/07/2007

Duration in hours: 25 hours

7 Type of training: Course

Training title: Elementary number theory

Awarding entity: Universidad Nacional de Educación a Type of entity: University

Distancia

End date: 17/06/2004 Duration in hours: 120 hours

8 Type of training: Course

Training title: Introduction to scientific calculus with MatLab

Awarding entity: Universidad Nacional de Educación a Type of entity: University

Distancia

End date: 23/09/2003 Duration in hours: 120 hours







9 Type of training: Course

Training title: El Escorial Summer School "Salir de la Tierra para conocer nuestros orígenes" Awarding entity: FUNDACION GENERAL DE LA UNIVERSIDAD COMPLUTENSE DE MADRID

End date: 30/07/1999 **Duration in hours:** 30 hours

10 Type of training: Course

Training title: Lectures on Physics

Awarding entity: FUNDACION COLEGIO LIBRE DE EMERITOS UNIVERSITARIOS **Duration in hours: 15 hours** End date: 30/09/1995

11 Type of training: Course

Training title: Check point English language course

Awarding entity: EMBAJADA DEL REINO UNIDO (BRITISH COUNCIL)

End date: 29/08/1995 **Duration in hours: 75 hours**

12 Type of training: Course

Training title: Certificate in general English studies

Awarding entity: EMBAJADA DEL REINO UNIDO (BRITISH COUNCIL)

End date: 29/07/1994 **Duration in hours:** 75 hours

Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

1 Title of course/seminar: Gamification in Moodle

Goals of the course/seminar: Teaching techniques applicable to college education Organising entity: Universidad Politécnica de Madrid Type of entity: University

Duration in hours: 3 hours

Start-End date: 14/02/2017 - 14/02/2017

2 Title of course/seminar: Initial formation for teachers in distance education

Goals of the course/seminar: Teaching techniques applicable to distance education

Organising entity: Centro Regional de Innovacion y Type of entity: Consejería de Educación, Comunidad de Madrid

Formacion 'Las Acacias'

Duration in hours: 100 hours

Start-End date: 04/10/2002 - 30/05/2003

3 Title of course/seminar: Teaching seminar: Elaboration of didactic materials for inter-culturality

Goals of the course/seminar: Teaching seminar assistance

Organising entity: Centro de Formacion del Type of entity: Public body

Profesorado de Getafe **Duration in hours:** 33 hours

Start-End date: 07/10/2002 - 05/03/2003

4 Title of course/seminar: Training for beginning teachers

Goals of the course/seminar: Teaching skills for beginning teachers Organising entity: Centro de Formación del Profesorado de Getafe

Duration in hours: 20 hours

Start-End date: 20/01/2003 - 28/01/2003







5 Title of course/seminar: Diversity in the classroom: talented students in mathematics

Goals of the course/seminar: Applying new teaching techniques to improve high-talented student skills in

mathematics

Organising entity: Centro Regional de Innovacion y

Formacion 'Las Acacias'

Duration in hours: 40 hours

Start-End date: 11/02/2002 - 15/04/2002

Type of entity: Consejería de Educación, Comunidad de

Madrid

6 Title of course/seminar: Applying the LOSGE system to High School teaching

Goals of the course/seminar: Legal regulations (LOGSE) and applications to High School teaching

Organising entity: ANPE-Madrid and Consejeria de Type of entity: Public

Educacion

Duration in hours: 105 hours

Start-End date: 05/11/2001 - 29/01/2002

7 Title of course/seminar: Managing discipline in High School levels

Goals of the course/seminar: Teaching skills for an efficient management of classroom activities

Organising entity: Ministerio de Educación, Política Type of entity: State agency

Social y Deporte

Duration in hours: 30 hours

Start-End date: 11/01/2002 - 19/01/2002

8 Title of course/seminar: Advanced Microsoft Office for High School teaching

Goals of the course/seminar: Application of Office tools to teaching

Organising entity: Ministerio de Educación, Política Type of entity: State agency

Social y Deporte

Duration in hours: 30 hours

Start-End date: 26/12/2001 - 29/12/2001

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	C1	C1	C1	C1	C1
Spanish	C2	C2	C2	C2	C2

Teaching experience

General teaching experience

1 Type of teaching: Official teaching
Name of the course: Machine learning

Professional category: Lecturer (Profesor Ayudante Doctor)

Type of programme: Engineering **Type of teaching:** In person theory

Type of subject: Core
Assessment type: Survey

University degree: Graduado o Graduada en Biotecnología

Course given: Second

Start date: 02/2019 End date: 07/2019







End date: 07/2019 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 24

Entity: Universidad Politécnica de Madrid **Type of entity:** University **Faculty, institute or centre:** Escuela Técnica Superior de Ingenieros Agrónomos

Department: Applied Mathematics

Assessment type: Survey **Subject language:** Spanish

2 Type of teaching: Official teaching

Name of the course: Mathematics I (Linear Algebra)

Professional category: Lecturer (Profesor Ayudante Doctor)

Type of programme: Engineering Type of teaching: In person theory

Type of subject: Core
Assessment type: Survey

University degree: Graduado o Graduada en Ingeniería de la Edificación

Course given: First

Start date: 09/2018 **End date:** 02/2019

End date: 02/2019 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 128

Entity: Universidad Politécnica de Madrid

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Edificación

Department: Applied Mathematics

Assessment type: Survey

Mark obtained: 4.7 Top mark possible: 5

Subject language: Spanish

3 Type of teaching: Official teaching

Name of the course: Mathematics I (Linear Algebra)

Professional category: Lecturer (Profesor Ayudante Doctor)

Type of programme: Engineering Type of teaching: In person theory

Type of subject: Core
Assessment type: Survey

University degree: Graduado o Graduada en Ingeniería de la Edificación

Course given: First

Start date: 09/2017 **End date:** 02/2018

End date: 02/2018 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 64

Entity: Universidad Politécnica de Madrid

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Edificación

Department: Applied Mathematics

Assessment type: Survey

Mark obtained: 4.68 Top mark possible: 5

Subject language: Spanish

4 Type of teaching: Official teaching Name of the course: Statistics

Professional category: Lecturer (Profesor Ayudante Doctor)

Type of programme: Engineering Type of teaching: In person theory

Type of subject: Core
Assessment type: Survey

University degree: Graduado o Graduada en Ingeniería de la Edificación







Course given: Second

Start date: 09/2017 **End date**: 02/2018

End date: 02/2018 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 64

Entity: Universidad Politécnica de Madrid

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Edificación

Department: Applied Mathematics

Assessment type: Survey

Mark obtained: 4.25 Top mark possible: 5

Subject language: Spanish

5 Type of teaching: Official teaching

Name of the course: Mathematics I (Linear Algebra)

Professional category: Lecturer (Profesor Ayudante Doctor)

Type of programme: Engineering Type of teaching: In person theory

Type of subject: Core
Assessment type: Survey

University degree: Graduado o Graduada en Ingeniería de la Edificación

Course given: First

Start date: 09/2016 **End date**: 02/2017

End date: 02/2017 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 32

Entity: Universidad Politécnica de Madrid

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Edificación

Department: Applied Mathematics

Assessment type: Survey Mark obtained: 4.44

Subject language: Spanish

6 Type of teaching: Official teaching

Name of the course: Programming and mathematical modeling Professional category: Lecturer (Profesor Ayudante Doctor)

Type of programme: Engineering Type of teaching: In person theory

Type of subject: Core
Assessment type: Survey

University degree: Graduado o Graduada en Ingeniería Forestal

Course given: Second

Start date: 09/2016 **End date:** 02/2017

End date: 02/2017 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 97

Entity: Universidad Politécnica de Madrid **Type of entity:** University **Faculty, institute or centre:** Escuela Técnica Superior de Ingenieros de Montes

Department: Applied Mathematics

Assessment type: Survey

Mark obtained: 5.1 Top mark possible: 6

Subject language: Spanish

7 Type of teaching: Official teaching

Name of the course: Introductory research activities

Professional category: Lecturer (Profesor Ayudante Doctor)

Type of programme: Engineering Type of teaching: In person theory







Type of subject: Core
Assessment type: Survey

University degree: PhD program in mathematical engineering, statistics and operation research

Course given: Second

Start date: 23/01/2017 **End date**: 27/01/2017

End date: 01/2017 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 24

Entity: Universidad Politécnica de Madrid **Type of entity:** University **Faculty, institute or centre:** Escuela Técnica Superior de Ingenieros Agrónomos

Department: Applied Mathematics

Assessment type: Survey Subject language: Spanish

8 Type of teaching: Official teaching

Name of the course: Mathematics I (Calculus, Differential Equations)

Professional category: Lecturer (Profesor Ayudante Doctor)

Type of programme: Engineering Type of teaching: In person theory

Type of subject: Core
Assessment type: Survey

University degree: Graduado o Graduada en Ingeniería de la Edificación

Course given: First

Start date: 09/2015 **End date:** 02/2016

End date: 02/2016 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 64

Entity: Universidad Politécnica de Madrid Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Edificación

Department: Applied Mathematics

Assessment type: Survey

Mark obtained: 4.59 Top mark possible: 5

Subject language: Spanish

9 Type of teaching: Official teaching Name of the course: Statistics

Professional category: Lecturer (Profesor Ayudante Doctor)

Type of programme: Engineering Type of teaching: In person theory

Type of subject: Core
Assessment type: Survey

University degree: Graduado o Graduada en Ingeniería de la Edificación

Course given: Second

Start date: 09/2015 **End date:** 02/2016

End date: 02/2016 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 64

Entity: Universidad Politécnica de Madrid

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Edificación

Department: Applied Mathematics

Assessment type: Survey

Mark obtained: 4.03 Top mark possible: 5

Subject language: Spanish







10 Type of teaching: Official teaching

Name of the course: Linear Algebra II - Calculus II (Practice)

Professional category: Collaborator

Type of programme: Engineering Type of teaching: Practical work (classroom-problems)

Type of subject: Core
Assessment type: Survey

University degree: Ingeniero Industrial

Course given: First

Start date: 02/2008 **End date:** 09/2008

End date: 09/2008 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 10

Entity: Universidad Carlos III de Madrid Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior

Department: Mathematics **Assessment type:** Survey

Mark obtained: 3.91 Top mark possible: 5

Subject language: Spanish

11 Type of teaching: Official teaching

Name of the course: Calculus II (Multivariate differential and integral calculus)

Professional category: Part-time professor

Type of programme: Engineering Type of teaching: In person theory

Type of subject: Core
Assessment type: Survey

University degree: Ingeniero Técnico Industrial Especialidad Mecánica

Course given: First

Start date: 02/2006 **End date**: 09/2006

End date: 09/2006 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 39

Entity: Universidad Carlos III de Madrid Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior

Department: Mathematics **Assessment type:** Survey

Mark obtained: 3.45 Top mark possible: 5

Subject language: Spanish

12 Type of teaching: Official teaching

Name of the course: Linear Algebra II - Calculus II (Practice)

Professional category: Part-time professor

Type of programme: Engineering **Type of teaching:** Practical work (classroom-problems)

Type of subject: Core
Assessment type: Survey

University degree: Ingeniero Industrial

Course given: First

Start date: 02/2006 **End date:** 09/2006

End date: 09/2006 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 40

Entity: Universidad Carlos III de Madrid Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior

Department: Mathematics **Assessment type:** Survey







Mark obtained: 4.04 Top mark possible: 5

Subject language: Spanish

13 Type of teaching: Official teaching
Name of the course: Numerical Analysis
Professional category: Part-time professor

Type of subject: Obligatory
Assessment type: Survey

University degree: Ingeniero de Telecomunicación

Course given: Third

Start date: 02/2006 **End date:** 09/2006

End date: 09/2006 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 8

Entity: Universidad Carlos III de Madrid Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior

Department: Mathematics **Assessment type:** Survey

Mark obtained: 3.07 Top mark possible: 5

Subject language: Spanish

14 Type of teaching: Official teaching

Name of the course: Extension of Mathematics (Complex analysis and differential equations)

Professional category: Part-time professor

Type of programme: Engineering Type of teaching: In person theory

Type of subject: Obligatory Assessment type: Survey

University degree: Ingeniero de Telecomunicación

Course given: Second

Start date: 09/2005 **End date**: 02/2006

End date: 02/2006 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 65

Entity: Universidad Carlos III de Madrid Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior

Department: Mathematics **Assessment type:** Survey

Mark obtained: 4.38 Top mark possible: 5

Subject language: Spanish

15 Type of teaching: Official teaching

Name of the course: Numerical Analysis in Engineering

Professional category: Part-time professor

Type of programme: Engineering Type of teaching: Laboratory work

Type of subject: Obligatory Assessment type: Survey

University degree: Ingeniero Industrial

Course given: Fourth

Start date: 09/2005 **End date:** 02/2006

End date: 02/2006 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 28

Entity: Universidad Carlos III de Madrid Type of entity: University







Faculty, institute or centre: Escuela Politécnica Superior

Department: Mathematics **Assessment type:** Survey

Mark abtained: 2.90

Mark obtained: 2.80 Top mark possible: 5

Subject language: Spanish

16 Type of teaching: Official teaching

Name of the course: Mathematics III (Multivariate differential calculus and numerical analysis)

Professional category: Part-time professor

Type of programme: Engineering Type of teaching: In person theory

Type of subject: Core
Assessment type: Survey

University degree: Ingeniero Técnico en Informática de Gestión

Course given: First

Start date: 02/2005 **End date**: 09/2005

End date: 09/2005 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 39

Entity: Universidad Carlos III de Madrid

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior

Department: Mathematics **Assessment type:** Survey

Mark obtained: 4.35 Top mark possible: 5

Subject language: Spanish

17 Type of teaching: Official teaching

Name of the course: Extension of Mathematics (Complex analysis and differential equations)

Professional category: Part-time professor

Type of programme: Engineering **Type of teaching:** In person theory

Type of subject: Obligatory
Assessment type: Survey

University degree: Ingeniero de Telecomunicación

Course given: Second

Start date: 09/2004 End date: 02/2005

End date: 02/2005 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 39

Entity: Universidad Carlos III de Madrid Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior

Department: Mathematics **Assessment type:** Survey

Mark obtained: 4.13 Top mark possible: 5

Subject language: Spanish

18 Type of teaching: Official teaching

Name of the course: Numerical Analysis in Engineering

Professional category: Part-time professor

Type of programme: Engineering Type of teaching: In person theory

Type of subject: Obligatory
Assessment type: Survey

University degree: Ingeniero Industrial

Course given: Fourth

Start date: 09/2004 **End date:** 02/2005







End date: 02/2005 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 49

Entity: Universidad Carlos III de Madrid Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior

Department: Mathematics **Assessment type:** Survey

Mark obtained: 4.25 Top mark possible: 5

Subject language: Spanish

19 Type of teaching: Official teaching

Name of the course: Mathematics III (Multivariate differential calculus and numerical analysis)

Professional category: Part-time professor

Type of programme: Engineering **Type of teaching:** In person theory

Type of subject: Core
Assessment type: Survey

University degree: Ingeniero Técnico en Informática de Gestión

Course given: First

Start date: 02/2004 **End date**: 09/2004

End date: 09/2004 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 39

Entity: Universidad Carlos III de Madrid Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior

Department: Mathematics **Assessment type:** Survey

Mark obtained: 3.10 Top mark possible: 5

Subject language: Spanish

20 Type of teaching: Official teaching

Name of the course: Numerical Analysis
Professional category: Part-time professor

Type of programme: Engineering Type of teaching: In person theory

Type of subject: Obligatory Assessment type: Survey

University degree: Ingeniero de Telecomunicación

Course given: Third

Start date: 02/2004 **End date**: 09/2004

End date: 09/2004 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 28

Entity: Universidad Carlos III de Madrid Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior

Department: Mathematics **Assessment type:** Survey

Mark obtained: 3.47 Top mark possible: 5

Subject language: Spanish







Student tutorials

1 Name of the programme: Teacher training

Entity: Universidad Complutense de Madrid, Facultad de Type of entity: University

Ciencias Matemáticas

Number of recognized hours/ECTS credits: 5

Number of tutored students: 1

2 Name of the programme: Teacher training

Entity: Universidad Complutense de Madrid, Instituto de Type of entity: University

Ciencias de la Educación

Number of recognized hours/ECTS credits: 5

Number of tutored students: 1

Participation in innovative teaching projects

1 Project title: Ex4maths as a personal learning environment in mathematics, statistics and computer programming

Type of participation: Principal investigator

Dedication regime: Part time

Name of the main researcher: Ana Luzon

Number of participants: 5 Amount awarded: 3.300 €

Funding entity: Universidad Politécnica de Madrid Type of entity: University

Participating entity/entities:

Universidad Autónoma de Madrid

Type of entity: University

Universidad Complutense de Madrid

Type of entity: University

Type of call: Competitive Geographical area: University

Start-End date: 01/01/2018 - 30/11/2018 **Duration:** 11 months

2 Project title: Generating self-grading exercises

Type of participation: Team member

Dedication regime: Part time

Name of the main researcher: Ana Luzon

Number of participants: 5 Amount awarded: 3.300 €

Funding entity: Universidad Politécnica de Madrid Type of entity: University

Participating entity/entities:
Universidad Autónoma de Madrid
Universidad Complutense de Madrid
Type of entity: University
Type of entity: University

Type of call: Competitive Geographical area: University

Start-End date: 28/02/2017 - 31/10/2017 **Duration:** 8 months







3 Project title: Convivir es vivir: Modalidad II en el IES Altair

Type of participation: Team member

Dedication regime: Part time

Name of the main researcher: Carlos Ferrera

Number of participants: 10

Funding entity: Consejería de Educación, Comunidad Type of entity: Regional public body

de Madrid

Type of call: Competitive Geographical area: Regional

Start-End date: 30/11/2005 - 09/05/2006

4 Project title: +Culturas=+Riqueza

Type of participation: Team member

Dedication regime: Part time

Name of the main researcher: Juan C. Girón

Number of participants: 20 Amount awarded: 1.500 €

Funding entity: Consejería de Educación, Comunidad Type of entity: Regional public body

de Madrid

Type of call: Competitive Geographical area: Regional

Start-End date: 12/03/2003 - 05/06/2003

Awards received for innovation in the field teaching

Name of the prize: Award for Teaching Innovation in High School Centres (Winner)

Awarding entity: Universidad Carlos III de Madrid

Type of entity: University

Proposed by: IES Altair (Project entitled 'A teaching innovation project for acknowledging cultural diversity')

Conferral date: 07/06/2004

Most relevant contributions of your teaching CV

1 Description: 920 hours of teaching in Undergraduate Courses, with very positive evaluations (surveys)

Organising entity: Several entities: Universidad Carlos Type of entity: University

III de Madrid, Universidad Politécnica de Madrid

End date: 07/2019

Description: Ex4maths exercise database for the 'Linear Algebra' Course (Degree on Forestry Engineering,

UPM), 56 exercises

Organising entity: Universidad Politécnica de Madrid Type of entity: University

End date: 02/2019

3 Description: Outstanding teaching evaluation (Docentia program)

Organising entity: Universidad Politécnica de Madrid Type of entity: University

End date: 20/12/2018

4 Description: Talk at the Workshop 'Trends in teaching innovation at UPM'

Organising entity: Universidad Politécnica de Madrid Type of entity: University

End date: 13/09/2018







Description: Ex4maths exercise database for the 'Statistics' Course (Degree on Forestry Engineering, UPM), 137

exercises

Organising entity: Universidad Politécnica de Madrid Type of entity: University

End date: 09/2018

6 Description: On-line teaching materials (solved problems) for the 'Linear Algebra' Course (Degree on Building

Engineering, UPM), 73 pages

Organising entity: Universidad Politécnica de Madrid Type of entity: University

End date: 02/2018

7 Description: On-line teaching materials for the 'Statistics' Course (Degree on Building Engineering, UPM), 65

pages

Organising entity: Universidad Politécnica de Madrid Type of entity: University

End date: 02/2018

8 Description: Ex4maths exercise database for the 'Mathematical modeling and programming' Course (Degree on

Forestry Engineering, UPM), 142 exercises

Organising entity: Universidad Politécnica de Madrid Type of entity: University

End date: 02/2017

9 Description: On-line teaching materials (solved problems) for the 'Calculus' Course (Degree on Building

Engineering, UPM), 41 pages

Organising entity: Universidad Politécnica de Madrid Type of entity: University

End date: 02/2016

10 Description: 65 months of teaching in High School Courses in Mathematics (53 months as a civil servant, Cuerpo

de Profesores de Enseñanza Secundaria)

Organising entity: Consejería de Educación Type of entity: Public body

End date: 31/01/2007

11 Description: Outstanding teaching evaluation (subject taught: Extension of Mathematics)

Organising entity: Universidad Carlos III de Madrid Type of entity: University

End date: 21/04/2005

12 Description: Attendance to 11 courses for teaching skills improvement (541 hours overall)

Organising entity: Several entities: UPM, UCM, Comunidad de Madrid, y Ministerio de Educación, Cultura y

Deporte

13 Description: Collaborator in the PhD Program in 'Mathematical Engineering, Statistics and Operation Research'

Organising entity: Universidad Complutense de Madrid Type of entity: University







Scientific and technological experience

Research and development groups/teams

1 Name of the group: Complex systems group

Aims of the group: Theoretical and computational analysis of complex systems (networks, non-linear dynamics,

Type of entity: State agency

stochastic processes, and statistics)

Name of principal investigator: Rosa M. Benito Type of collaboration: Co-authorship of publications

Affiliation entity: Universidad Politécnica de Madrid Type of entity: University

Start date: 29/10/2018

Name of the group: Expanding frontiers in ecological theory through microbial systems

Aims of the group: Theoretical approaches in ecology based on microbial communities

Name of principal investigator: Emilio O. Casamayor Type of collaboration: Co-authorship of publications

Affiliation entity: Centro de Estudios Avanzados de

Blanes

Start date: 01/09/2014 **Duration:** 1 year - 1 month - 27 days

3 Name of the group: Statistical and non-linear physics

Name of principal investigator: Juan Manuel Rodriguez Parrondo Affiliation entity: REAL SOCIEDAD ESPAÑOLA DE FISICA

Start date: 20/10/2010 **Duration:** 4 years - 2 months - 17 days

4 Name of the group: Physics of cooperation and conflict

Aims of the group: Understanding the promotion of cooperation in social systems

Name of principal investigator: Peter Richmond

Type of collaboration: Co-authorship of projects and their development

Affiliation entity: Trinity College Type of entity: University

Start date: 01/09/2008 Duration: 3 years

Scientific or technological activities

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

1 Name of the project: Connection empirical microbial ecology with theories for biodiversity organization in

space and time

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Consejo Superior Type of entity: State agency

de Investigaciones Científicas

City of entity: Blanes, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Emilio Ortega Casamayor; David Alonso

N° of researchers: 7 Funding entity or bodies:







Ministerio de economia y competitividad **Type of entity:** Public research body

Code according to the funding entity: CGL2015-69043-P

Start-End date: 01/01/2016 - 31/12/2017

Total amount: 146.000 € Dedication regime: Full time

2 Name of the project: Development of theoretical community models for biodiversity and species

distributions. A generalized site-occupancy approach

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Consejo Superior Type of entity: State agency

de Investigaciones Científicas

City of entity: Blanes, Catalonia, Spain

Name principal investigator (PI, Co-PI....): David Alonso

N° of researchers: 3 Funding entity or bodies:

Ministerio de economia y competitividad **Type of entity:** Public research body

Code according to the funding entity: CGL2012-39964

Start-End date: 01/01/2013 - 31/12/2015

Total amount: 105.000 €

Dedication regime: Full time

3 Name of the project: Microbial ecology and the earth system: Collaborating for insight and success with the

new generation of sequencing tools Geographical area: European Union Degree of contribution: Researcher

Entity where project took place: University of Type of entity: University

Newcastle

City of entity: Newcastle upon Tyne, United Kingdom Name principal investigator (PI, Co-PI....): Tom Curtis

N° of researchers: 176 Funding entity or bodies:

European Science Foundation Type of entity: Foundation

City funding entity: Strasbourg, France

Name of the programme: COST Action Code according to the funding entity: ES1103

Start-End date: 28/10/2011 - 27/10/2015

Total amount: 430.000 €

Dedication regime: Part time

Applicant's contribution: The action is subdivided into 5 working groups (WG). The applicant participates

in the WG4, 'Expanding frontiers in ecological theory through microbial systems'.

4 Name of the project: Dynamical evolutionary processes: Viruses, ecosystems and social behavior

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad Carlos Type of entity: University

III de Madrid

Name principal investigator (PI, Co-PI....): José A. Cuesta

N° of researchers: 6 Funding entity or bodies:







Ministerio de Ciencia e Innovación Type of entity: Public research body

City funding entity: Madrid, Community of Madrid, Spain

Code according to the funding entity: FIS2011-22449

Start-End date: 01/01/2012 - 30/06/2015

Total amount: 33.000 €

Dedication regime: Part time

5 Name of the project: Evolution of heterogeneous populations. Mechanisms for diversity generation and

environmental effects on adaptation

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Consejo Superior Type of entity: State agency

de Investigaciones Científicas

City of entity: Torrejón de Ardoz, Community of Madrid, Spain Name principal investigator (PI, Co-PI....): Susanna Manrubia

N° of researchers: 9 Funding entity or bodies:

Ministerio de Ciencia e Innovación Type of entity: Public research body

City funding entity: Madrid, Community of Madrid, Spain Code according to the funding entity: FIS2011-27569

Start-End date: 01/01/2012 - 30/06/2015

Total amount: 220.220 €

Dedication regime: Part time

6 Name of the project: Modeling and simulating complex systems (MODELICO-CM)

Geographical area: Regional **Degree of contribution:** Researcher

Entity where project took place: Consejo Superior Type of entity: State agency

de Investigaciones Científicas

Name principal investigator (PI, Co-PI....): Enrique Lomba

N° of researchers: 40 Funding entity or bodies:

Comunidad de Madrid Type of entity: Public research body

City funding entity: Madrid, Community of Madrid, Spain

Code according to the funding entity: S2009/ESP-1691

Start-End date: 01/01/2010 - 31/12/2013

Participating entity/entities: Centro de Astrobiología; Instituto de Ciencia de Materiales de Madrid; Instituto de Química Física Rocasolano; Universidad Autónoma de Madrid; Universidad Carlos III de Madrid; Universidad Complutense de Madrid; Universidad Nacional de Educación a Distancia; Universidad

Politécnica de Madrid Total amount: 816.500 € Dedication regime: Full time

Name of the project: Modeling, simulating and analyzing complex systems (MOSAICO)

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad Carlos Type of entity: University

III de Madrid

Name principal investigator (PI, Co-PI....): Ángel Sánchez

Nº of researchers: 32







Funding entity or bodies:

Ministerio de Educación y Ciencia **Type of entity:** Public Research Body

City funding entity: Madrid, Community of Madrid, Spain

Name of the programme: Consolider programme Code according to the funding entity: FIS2006-01485

Start-End date: 01/01/2006 - 30/06/2012

Participating entity/entities: Universidad Carlos III de Madrid; Universidad Complutense de Madrid;

Universidad Politécnica de Madrid; Universidad Pontificia Comillas

Total amount: 474.320 €

Dedication regime: Full time

8 Name of the project: Experiments, models and simulation of complex systems in physical, economic, social

and biological phenomena

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: Universidad Carlos Type of entity: University

III de Madrid

Name principal investigator (PI, Co-PI....): Esteban Moro

N° of researchers: 7 Funding entity or bodies:

Universidad Carlos III de Madrid **Type of entity:** University

City funding entity: Getafe, Community of Madrid, Spain

Comunidad de Madrid Type of entity: Public research body

City funding entity: Madrid, Community of Madrid, Spain

Code according to the funding entity: CCG10-UC3M/ESP-5555

Start-End date: 01/01/2011 - 31/12/2011

Total amount: 3.100 €

Dedication regime: Part time

9 Name of the project: Physics of cooperation and conflict

Geographical area: European Union **Degree of contribution:** Researcher

Entity where project took place: Trinity College Type of entity: University

City of entity: Ireland

Name principal investigator (PI, Co-PI....): Peter Richmond

Nº of researchers: 71
Funding entity or bodies:

European Science Foundation Type of entity: Foundation

City funding entity: Strasbourg, France Name of the programme: COST Action

Code according to the funding entity: MP0801

Start-End date: 01/09/2008 - 31/08/2011

Total amount: 500.000 €

Dedication regime: Part time

10 Name of the project: Dynamics and collective phenomena in socio-economic systems

Geographical area: National

Degree of contribution: Researcher

Type of entity: University







Entity where project took place: Universidad Carlos

III de Madrid

Name principal investigator (PI, Co-PI....): Ángel Sánchez

N° of researchers: 7 Funding entity or bodies:

Ministerio de Ciencia e Innovación Type of entity: Public research body

City funding entity: Madrid, Community of Madrid, Spain

Name of the programme: Programa de Acciones Complementarias

Start-End date: 01/10/2008 - 31/12/2009

Total amount: 12.000 € Dedication regime: Part time

11 Name of the project: Modeling and simulating heterogeneous systems in condensed matter (MOSSNOHO)

Geographical area: Regional **Degree of contribution:** Researcher

Entity where project took place: Universidad Type of entity: University

Autónoma de Madrid

Name principal investigator (PI, Co-PI....): Guillermo Navascués

N° of researchers: 30 Funding entity or bodies:

Comunidad de Madrid **Type of entity:** Public research body

City funding entity: Madrid, Community of Madrid, Spain Code according to the funding entity: S-0505/ESP/0299

Start-End date: 01/01/2006 - 31/12/2009

Total amount: 542.900 € Dedication regime: Full time

12 Name of the project: Collective phenomena and complexity in surfaces at sub-micrometric and nanometric

scales

Geographical area: Regional **Degree of contribution:** Researcher

Entity where project took place: Universidad Carlos Type of entity: University

III de Madrid

Name principal investigator (PI, Co-PI....): Rodolfo Cuerno

N° of researchers: 6 Funding entity or bodies:

Universidad Carlos III de Madrid **Type of entity:** University

City funding entity: Getafe, Community of Madrid, Spain

Comunidad de Madrid Type of entity: Public research body

City funding entity: Madrid, Community of Madrid, Spain

Code according to the funding entity: CCG06-UC3M/ESP-0668

Start-End date: 01/01/2007 - 29/02/2008

Total amount: 3.150 €

Dedication regime: Part time

13 Name of the project: Multidisciplinary study of complex systems in materials science, biology and social

sciences

Geographical area: Regional **Degree of contribution:** Researcher

Type of entity: University







Entity where project took place: Universidad Carlos

III de Madrid

Name principal investigator (PI, Co-PI....): Ángel Sánchez

N° of researchers: 10 Funding entity or bodies:

Universidad Carlos III de Madrid **Type of entity:** University

City funding entity: Getafe, Community of Madrid, Spain

Comunidad de Madrid Type of entity: Public research body

City funding entity: Madrid, Community of Madrid, Spain **Code according to the funding entity:** UC3M-FI-05-007

Start-End date: 01/01/2006 - 31/12/2006

Total amount: 8.500 €

Dedication regime: Part time

R&D non-competitive contracts, agreements or projects with public or private entities

Name of the project: SMOS End-to-End Performance Simulator (SEPS)

Geographical area: European Union **Degree of contribution:** Researcher

Entity where project took place: Grupo de Type of entity: Business

Mecánica del Vuelo Nº of researchers: 6

Participating entity/entities: EADS CASA; Grupo de Mecánica del Vuelo; Universitat Politècnica de

Catalunya

Funding entity or bodies: European Space Agency

City funding entity: Noordwijk, Holland

Code according to the funding entity: ESTEC contract number 14907/00/NL/SF

Start date: 01/12/2000

Duration: 1 year - 4 months







Scientific and technological activities

Scientific production

H index: 10

Date of application: 17/04/2016

Publications, scientific and technical documents

Vicente J. Ontiveros; José A. Capitán; Rohan; Emilio O. Casamayor; David. Colonization and extinction rates estimated from temporal dynamics of ecological communities: The island R package. Methods in Ecology and Evolution. In press, Wiley online library, 2019.

Type of production: Scientific paper Format: Journal

Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 5 **Corresponding author:** No

Impact source: ISI Category: Ecology

Impact index in year of publication: 6.363

Journal in the top 25%: Yes

Position of publication: 9

No. of journals in the cat.: 160

Relevant results: Accepted on March 4, 2019. The impact factor provided is the last one available (2017).

Relevant publication: Yes

Sara Cuenda; Maximiliano Fernandez; Javier Galeano; Jose A. Capitan. A minimal agent-based model reproduces the overall topology of interbank networks. Journal of Artificial Societies and Social Simulation. European Social Simulation Association, 2018. Available on-line at: https://10.18564/jasss.3562>.

Type of production: Scientific paper Format: Journal

Position of signature: 4 **Degree of contribution:** Author or co-author of article in journal without external admissions assessment

committee

Corresponding author: No

Impact source: ISI Category: Social Sciences Edition - SOCIAL

SCIENCES, INTERDISCIPLINARY

Impact index in year of publication: 0.992

Journal in the top 25%: No

Position of publication: 46 No. of journals in the cat.: 96

Source of citations: WOS

Source of citations: Google scholar

Citations: 1

Relevant publication: Yes

3 Carlos A. Serván; José A. Capitán; Jacopo; Kent E. Morrison; Stefano. Coexistence of many species in random ecosystems. Nature Ecology and Evolution. 2 - 8, pp. 1237 - 1242. Nature Publishing Group, 2018. Available on-line at: https://doi.org/10.1038/s41559-018-0603-6.

Type of production: Scientific paper Format: Journal

Position of signature: 2

Total no. authors: 5
Source of citations: WOS

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Citations: 2







Citations: 2 Source of citations: Google scholar

Relevant results: Equal contribution with the first author (as explicitly mentioned in the paper). A News & Views piece by Shaopen Wang in Nature Ecology and Evolution accompany the paper. This work was highlighted in Nature Physics by Federico Levi. This paper was also mentioned in an article in Quanta Magazine. The journal was launched in 2017, so the impact factor is not available yet.

Reviews in journals: 2 Relevant publication: Yes

4 Jose A. Capitan; Sara Cuenda; David Alonso. Stochastic competitive exclusion leads to a cascade of species extinctions. Journal of Theoretical Biology. 419, pp. 137 - 151. Elsevier, 2017. Available on-line at: https://doi.org/10.1016/j.jtbi.2017.02.007>.

Type of production: Scientific paper Format: Journal

Position of signature: 1 **Degree of contribution:** Author or co-author of article

in journal without external admissions assessment

committee

Corresponding author: Yes

Impact source: ISI Category: Science Edition - MATHEMATICAL &

> COMPUTATIONAL BIOLOGY Journal in the top 25%: Yes No. of journals in the cat.: 52

Impact index in year of publication: 2.260

Position of publication: 10

Source of citations: WOS Citations: 0 Source of citations: Google scholar Citations: 2

Relevant publication: Yes

5 Jose A. Capitan: Sara Cuenda; David Alonso. How similar can co-occurring species be in the presence of competition and ecological drift?. Journal of the Royal Society Interface. 12 - 110, pp. 20150604. 2015. Available on-line at: http://dx.doi.org/10.1098/rspb.2014.2947.

Type of production: Scientific paper Format: Journal

Position of signature: 1 **Degree of contribution:** Author or co-author of article in

journal with external admissions assessment committee

Corresponding author: Yes

Impact source: ISI Category: Science Edition - MULTIDISCIPLINARY

SCIENCES

Impact index in year of publication: 3.92

Position of publication: 7

Journal in the top 25%: Yes No. of journals in the cat.: 57

Source of citations: WOS Citations: 2

Citations: 10 Source of citations: Google scholar

Relevant publication: Yes

6 Jose A. Capitan; Jacob B. Axelsen; Susanna Manrubia. New patterns in human biogeography revealed by networks of contacts between linguistic groups. Proceedings of the Royal Society B. 282, pp. 20142947. 2015. Available on-line at: http://dx.doi.org/10.1098/rspb.2014.2947>.

Type of production: Scientific paper Format: Journal

Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal without external admissions assessment

committee

Impact source: ISI Category: Science Edition - ECOLOGY

> Journal in the top 25%: Yes No. of journals in the cat.: 141

Position of publication: 16

Impact index in year of publication: 5.292







Source of citations: WOS

Citations: 4

Source of citations: Google scholar

Citations: 6

Reviews in journals: 4
Relevant publication: Yes

Jose A. Capitan; Alex Arenas; Roger Guimera. Degree of intervality of food webs: From body-size data to models. Journal of Theoretical Biology. 334, pp. 35 - 44. 2013. Available on-line at:

http://dx.doi.org/10.1016/j.jtbi.2013.06.004>.

Type of production: Scientific paper Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article

in journal without external admissions assessment

committee

Impact source: ISI Category: Science Edition - MATHEMATICAL &

COMPUTATIONAL BIOLOGY

Journal in the top 25%: Yes

Impact index in year of publication: 2.303

Journal in the top 25%: Yes

Position of publication: 10

No. of journals in the cat.: 52

Source of citations: WOS

Citations: 8

Source of citations: Google scholar

Citations: 19

Relevant publication: Yes

Jose A. Capitan; Javier Borge-Holthoefer; Sergio Gomez; Juan Martinez-Romo; Lourdes Araujo; Jose A. Cuesta; Alex Arenas. Local-based semantic navigation on a networked representation of information. Plos One. 7 - 8, pp. e43694. 2012. Available on-line at: http://dx.doi.org/10.1371/journal.pone.0043694>.

Type of production: Scientific paper Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article

in journal without external admissions assessment

committee

Impact source: ISI Category: Science Edition - MULTIDISCIPLINARY

SCIENCES

Impact index in year of publication: 3.730

Journal in the top 25%: Yes

Position of publication: 7 No. of journals in the cat.: 56

Source of citations: WOS

Citations: 11

Source of citations: Google scholar

Citations: 18

Relevant publication: Yes

Jose A. Capitan; Jose A. Cuesta; Jordi Bascompte. Species assembly in model ecosystems, II: Results of the assembly process. Journal of Theoretical Biology. 269 - 1, pp. 344 - 355. 2011. Available on-line at:

http://dx.doi.org/10.1016/j.jtbi.2010.10.031>.

Type of production: Scientific paper Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article

in journal without external admissions assessment

committee

Impact source: ISI Category: Science Edition - MATHEMATICAL &

COMPUTATIONAL BIOLOGY **Journal in the top 25%**: Yes

Impact index in year of publication: 2.208

Journal in the top 25%: Yes

Position of publication: 11

No. of journals in the cat.: 47

Source of citations: WOS Citations: 7







Source of citations: Google scholar Citations: 14

Reviews in journals: 4
Relevant publication: Yes

Jose A. Cuesta; Jacobo Aguirre; Jose A. Capitan; Susanna C. Manrubia. Struggle for space: Viral extinction through competition for cells. Physical Review Letters. 106 - 2, pp. 028104. 2011. Available on-line at:

http://dx.doi.org/10.1103/PhysRevLett.106.028104.

Type of production: Scientific paper Format: Journal

Position of signature: 3 Degree of contribution: Author or co-author of article

in journal without external admissions assessment

committee

Impact source: ISI Category: Science Edition - PHYSICS,

MULTIDISCIPLINARY

Impact index in year of publication: 7.370

Journal in the top 25%: Yes

Position of publication: 5 No. of journals in the cat.: 84

Source of citations: WOS

Citations: 12

Source of citations: Google scholar

Citations: 17

Relevant publication: Yes

11 Jose A. Capitan; Gustav W. Delius. Scale-invariant model of marine population dynamics. Physical Review E. 81 -

6, pp. 061901. 2010. Available on-line at: http://dx.doi.org/10.1103/PhysRevE.81.061901.

Type of production: Scientific paper Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article

in journal without external admissions assessment

committee

Impact source: ISI Category: Science Edition - PHYSICS,

MATHEMATICAL

Impact index in year of publication: 2.352

Journal in the top 25%: Yes

Position of publication: 4 No. of journals in the cat.: 54

Source of citations: WOS Citations: 139

Source of citations: Google scholar Citations: 22

Relevant publication: Yes

Jose A. Capitan; Jose A. Cuesta; Jordi Bascompte. Statistical mechanics of ecosystem assembly. Physical Review

Letters. 103 - 16, pp. 168101. 2009. Available on-line at: http://dx.doi.org/10.1103/PhysRevLett.103.168101.

Type of production: Scientific paper Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article

in journal without external admissions assessment

committee

Impact source: ISI Category: Science Edition - PHYSICS,

MULTIDISCIPLINARY

Impact index in year of publication: 7.328 Journal in the top 25%: Yes

Position of publication: 6 No. of journals in the cat.: 71

Source of citations: WOS Citations: 14

Source of citations: Google scholar Citations: 24

Relevant publication: Yes







Jose A. Capitan; Susanna Manrubia. Demography-based adaptive network model reproduces the spatial

organization of human linguistic groups. Physical Review E. 92, pp. 062811. 2015.

Type of production: Scientific paper Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Total no. authors: 2 Corresponding author: Yes

Impact source: ISI Category: Science Edition - PHYSICS,

MATHEMATICAL

Impact index in year of publication: 2.326 Journal in the top 25%: Yes

Position of publication: 6 No. of journals in the cat.: 55

Source of citations: WOS

Citations: 1

Source of citations: Google Scholar

Citations: 2

14 Jose A. Capitan; Jacobo Aguirre; Susanna Manrubia. Dynamical community structure of populations evolving on

genotype networks. Chaos, solitons and fractals. 72, pp. 99 - 106. 2015.

Type of production: Scientific paper Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Corresponding author: No

Impact source: ISI Category: Science Edition - MATHEMATICS,

INTERDISCIPLINARY APPLICATIONS

Impact index in year of publication: 1.503

Journal in the top 25%: No

Position of publication: 27 No. of journals in the cat.: 95

Source of citations: WOS

Citations: 2

Source of citations: Google scholar

Citations: 3

Veronica I. Marconi; Alejandro B. Kolton; Jose A. Capitan; Jose A. Cuesta; Alejandro Perez-Junquera; Maria Velez; J. I. Martin; Juan M. R. Parrondo. Crossed-ratchet effects and domain wall geometrical pinning. Physical Review B. 83 - 21, pp. 214403. 2011. Available on-line at: http://dx.doi.org/10.1103/PhysRevB.83.214403.

Type of production: Scientific paper Format: Journal

Position of signature: 3 Degree of contribution: Author or co-author of article

in journal without external admissions assessment

committee

Impact source: ISI Category: Science Edition - PHYSICS, CONDENSED

MATTER

Impact index in year of publication: 3.691

Journal in the top 25%: Yes

Position of publication: 13 No. of journals in the cat.: 69

Source of citations: WOS

Citations: 7

Source of citations: Google scholar

Citations: 6

Juan Martinez-Romo; Lourdes Araujo; Javier Borge-Holthoefer; Alex Arenas; Jose A. Capitan; Jose A. Cuesta. Disentangling categorical relationships through a graph of co-occurrences. Physical Review E. 84 - 4, pp. 046108.

2011. Available on-line at: http://dx.doi.org/10.1103/PhysRevE.84.046108>.

Type of production: Scientific paper Format: Journal

Position of signature: 5 **Degree of contribution:** Author or co-author of article in journal without external admissions assessment

committee

Impact source: ISI







Category: Science Edition - PHYSICS,

Journal in the top 25%: Yes

No. of journals in the cat.: 55

MATHEMATICAL

Impact index in year of publication: 2.255

Position of publication: 6

Source of citations: WOS Citations: 12

Source of citations: Google scholar Citations: 15

Jose A. Capitan; Jose A. Cuesta; Susanna C. Manrubia; Jacobo Aguirre. Severe hindrance of viral infection propagation in spatially extended hosts. Plos One. 6 - 8, pp. e23358. 2011. Available on-line at: http://dx.doi.org/10.1371/journal.pone.0023358>.

Type of production: Scientific paper Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article

in journal without external admissions assessment

committee

Impact source: ISI Category: Science Edition - BIOLOGY

Impact index in year of publication: 4.092

Position of publication: 12

Journal in the top 25%: Yes

No. of journals in the cat.: 85

Source of citations: WOS

Source of citations: Google scholar

Citations: 8

Jose A. Capitan; Jose A. Cuesta. Species assembly in model ecosystems, I: Analysis of the population model and the invasion dynamics. Journal of Theoretical Biology. 269 - 1, pp. 330 - 343. 2011. Available on-line at: http://dx.doi.org/10.1016/j.jtbi.2010.09.032>.

Type of production: Scientific paper Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article

in journal without external admissions assessment

committee

Impact source: ISI Category: Science Edition - MATHEMATICAL &

COMPUTATIONAL BIOLOGY

Journal in the top 25%: Yes

Impact index in year of publication: 2.208

Journal in the top 25%: Yes

Position of publication: 11 No. of journals in the cat.: 47

Source of citations: WOS Citations: 11
Source of citations: Google scholar Citations: 15

Jose A. Capitan; Jose A. Cuesta. Catastrophic regime shifts in model ecological communities are true phase transitions. Journal of Statistical Mechanics-Theory and Experiment. 10, pp. P10003. 2010. Available on-line at: http://dx.doi.org/10.1088/1742-5468/2010/10/P10003>.

Type of production: Scientific paper Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article

in journal without external admissions assessment

committee

Impact source: ISI Category: Science Edition - MECHANICS

Impact index in year of publication: 1.822

Position of publication: 22

Journal in the top 25%: Yes

No. of journals in the cat.: 133

Source of citations: WOS

Citations: 3

Source of citations: Google scholar

Citations: 5







20 Noe G. Almarza; Jose A. Capitan; Jose A. Cuesta; Enrique Lomba. Phase diagram of a two-dimensional lattice gas model of a ramp system. Journal of Chemical Physics. 131 - 12, pp. 124506. 2009. Available on-line at:

http://dx.doi.org/10.1063/1.3223999>.

Type of production: Scientific paper Format: Journal

Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal without external admissions assessment

committee

Category: Science Edition - PHYSICS, ATOMIC, Impact source: ISI

MOLECULAR & CHEMICAL

Impact index in year of publication: 3.093 Journal in the top 25%: Yes

Position of publication: 6 No. of journals in the cat.: 33

Source of citations: WOS Citations: 24 Source of citations: Google scholar Citations: 32

21 Yuri Martinez-Raton; Jose A. Capitan; Jose A. Cuesta. Fundamental-measure density functional for mixtures of parallel hard cylinders. Physical Review E. 77 - 5, pp. 051205. 2008. Available on-line at:

http://dx.doi.org/10.1103/PhysRevE.77.051205.

Type of production: Scientific paper Format: Journal

Position of signature: 2 **Degree of contribution:** Author or co-author of article

in journal without external admissions assessment

Impact source: ISI Category: Science Edition - PHYSICS,

MATHEMATICAL

Impact index in year of publication: 2.508 Journal in the top 25%: Yes

Position of publication: 6 No. of journals in the cat.: 46

Source of citations: WOS Citations: 24 Source of citations: Google scholar Citations: 29

22 Jose A. Capitan; Yuri Martinez-Raton; Jose A. Cuesta. Phase behavior of parallel hard cylinders. Journal of Chemical Physics. 128 - 19, pp. 194901. 2008. Available on-line at: http://dx.doi.org/10.1063/1.2920481.

Type of production: Scientific paper Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article

in journal without external admissions assessment

committee

Impact source: ISI Category: Science Edition - PHYSICS, ATOMIC,

MOLECULAR & CHEMICAL

Impact index in year of publication: 3.149 Journal in the top 25%: Yes Position of publication: 5

No. of journals in the cat.: 31

Source of citations: WOS Citations: 24 Source of citations: Google scholar Citations: 27

Reviews in journals: 1

Jose A. Capitan; Jose A. Cuesta. Fundamental-measure density functional for the fluid of aligned hard hexagons: Further insights in fundamental measure theory. Physical Review E. 76 - 1, pp. 011403. 2007. Available on-line at:

http://dx.doi.org/10.1103/PhysRevE.76.011403.

Type of production: Scientific paper Format: Journal

Position of signature: 1







Degree of contribution: Author or co-author of article in journal without external admissions assessment

committee

Impact source: ISI Category: Science Edition - PHYSICS,

MATHEMATICAL

Journal in the top 25%: Yes

No. of journals in the cat.: 43

Impact index in year of publication: 2.483

Position of publication: 4

Source of citations: WOS Citations: 6

Source of citations: Google scholar Citations: 8

Jose L. Alonso; Jose A. Capitan; Luis A. Fernandez; Francisco Guinea; Victor Martin-Mayor. Monte Carlo determination of the phase diagram of the double-exchange model. Physical Review B. 64 - 5, pp. 054408. 2001. Available on-line at: http://dx.doi.org/10.1103/PhysRevB.64.054408>.

Type of production: Scientific paper Format: Journal

Position of signature: 2 Degree of contribution: Author or co-author of article

in journal without external admissions assessment

committee

Impact source: ISI Category: Science Edition - PHYSICS, ATOMIC,

MOLECULAR & CHEMICAL

Impact index in year of publication: 3.070

Journal in the top 25%: Yes

Position of publication: 4 No. of journals in the cat.: 33

Source of citations: WOS

Citations: 34

Source of citations: Google scholar

Citations: 45

Jose A. Capitan; Susanna Manrubia. The ecology of human linguistic groups. Frontiers in Ecology, Evolution and Complexity. pp. 255 - 264. Mexico(Mexico): Universidad Autónoma de México and Copit arXives, 2014. Available on-line at: http://scifunam.fisica.unam.mx/mir/copit/TS0012EN/TS0012EN.html. ISBN 978-1-938128-05-9

Type of production: Book chapter **Format:** Book

Position of signature: 1 Degree of contribution: Author or co-author of chapter

in book

Source of citations: Google scholar **Citations:** 0

Jose A. Capitan. Self-organization in Biology: From quasi-species to ecosystems. Leganes, Community of Madrid(Spain): Universidad Carlos III de Madrid, e-Archivo, 2010.

Handle: http://hdl.handle.net/10016/10294

Type of production: PhD Thesis Format: Book

Degree of contribution: Author or co-author of entire book

Source of citations: Google scholar **Citations:** 0

Works submitted to national or international conferences

Title of the work: Coexistence of many species in large ecosystems: The problem of the random zoo

Name of the conference: XXXIV Mediterranean Scientific Meetings 'Josep Miquel Vidal' on 'Physics and

Ecology: Challenges at the frontier'

Type of event: Conference Geographical area: European Union

Type of participation: Participatory - oral communication **City of event:** Mahón, Menorca, Balearic Islands, Spain







Date of event: 11/10/2018 **End date:** 13/07/2017

Organising entity: INSTITUT MENORQUI D'ESTUDIS

Jose A. Capitan.

2 Title of the work: Stochastic birth-death processes and differential Galois theory

Name of the conference: International conference on algebraic methods in dynamical systems AMDS2018

Type of event: Conference Geographical area: European Union

Type of participation: Participatory - invited/keynote talk **City of event:** Madrid, Community of Madrid, Spain

Date of event: 19/06/2018 **End date:** 13/07/2017

Organising entity: Universidad Politécnica de Type of entity: University

Madrid

Jose A. Capitan; Juan J. Morales-Ruiz.

3 Title of the work: Unveiling environmental thresholds for local community assembly rules along a regional

salinity gradient

Name of the conference: XV Meeting of the National Network for Extremophile Organisms

Type of event: Conference

Geographical area: European Union

Type of participation: Participatory - oral communication City of event: Matalascañas, Huelva, Andalusia, Spain

Date of event: 23/05/2018 **End date:** 13/07/2017

Organising entity: National Network for Extremophile Organisms

Xavier Triado-Margarit; Jose A. Capitan; Rudiger Ortiz-Alvarez; Vicente Jimenez-Ontiveros;

Menéndez-Serra Mateu; David Alonso; Emilio O. Casamayor.

4 Title of the work: Bridging the gap between empirical microbial ecology and theories of biodiversity

organization in space and time

Name of the conference: FEMS microbiology congress

Type of event: Conference Geographical area: European Union

Type of participation: 'Participatory - poster

City of event: Valencia, Valencian Community, Spain

Date of event: 09/07/2017 **End date:** 13/07/2017

Organising entity: Federation of European Microbiological Societies

Emilio O. Casamayor; David Alonso; Jose A. Capitan; Xavier Triado-Margarit; Caliz Joan; Rudiger

Ortiz-Alvarez; Vicente Jimenez-Ontiveros.

5 Title of the work: Testing competition through macro-ecological data

Name of the conference: 100th Ecological Society of America Annual Meeting

Type of event: Conference Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Baltimore, United States of America

Date of event: 10/08/2015 **End date:** 15/08/2015

Organising entity: Ecological Society of America Type of entity: Associations and Groups

Jose A. Capitan; Vicente Jimenez; Alejandro Ordoñez; David Alonso.







6 Title of the work: Colonization-extinction signatures in microbial communities

Name of the conference: COST Action ES1103, Working Group 4: Expanding frontiers in ecological theory

through microbial systems

Type of event: Workshop Geographical area: European Union

Type of participation: Participatory - oral communication

City of event: Amsterdam, Holland

Date of event: 10/11/2014 **End date:** 12/11/2014

Organising entity: University of Amsterdam Type of entity: University

Emilio O. Casamayor; Jose A. Capitan; Vicente Jimenez; David Alonso.

7 Title of the work: Networks of contacting linguistic domains

Name of the conference: Interacting populations on social, economic and ecological networks. Special Session on 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - invited/keynote Reasons for participation: Upon invitation

talk

City of event: Madrid, Community of Madrid, Spain

Date of event: 10/07/2014 **End date:** 11/07/2014

Organising entity: Instituto de Ciencias Matemáticas Type of entity: State agency

Jose A. Capitan; Jacob B. Axelsen; Susanna Manrubia.

8 Title of the work: Genotype networks of model proteins

Name of the conference: IV Meeting of the Spanish Society for Evolutionary Biology

Type of event: Conference

Geographical area: European Union

Type of participation: 'Participatory - poster **City of event:** Barcelona, Catalonia, Spain

Date of event: 27/11/2013 **End date:** 29/11/2013

Organising entity: Sociedad Española de Biologia Evolutiva

Jose A. Capitan; Susanna Manrubia.

9 Title of the work: Networks of neighboring linguistic groups

Name of the conference: European Conference on Complex Systems ECCS'13

Type of event: Conference Geographical area: European Union

Type of participation: Participatory - oral communication

City of event: Barcelona, Catalonia, Spain

Date of event: 16/09/2013 **End date:** 20/09/2013

Jose A. Capitan; Jacob B. Axelsen; Susanna Manrubia.

10 Title of the work: Spatial constraints in the distribution of linguistic diversity

Name of the conference: XXXIII Dynamics Days Europe

Type of event: Conference Geographical area: European Union

Type of participation: Participatory - oral communication **City of event:** Madrid, Community of Madrid, Spain

Date of event: 03/06/2013 **End date:** 07/06/2013

Type of entity: University







Organising entity: Universidad Politécnica de

Madrid

Jose A. Capitan; Jacob B. Axelsen; Susanna Manrubia.

11 Title of the work: Role of space in the distribution of linguistic diversity

Name of the conference: 5th MODELICO Workshop

Type of event: Workshop Geographical area: Regional

Type of participation: Participatory - oral communication **City of event:** Madrid, Community of Madrid, Spain

Date of event: 05/11/2012

Organising entity: Universidad Politécnica de Type of entity: University

Madrid

Jose A. Capitan; Jacob B. Axelsen; Susanna Manrubia.

12 Title of the work: Stochasticity and competitive exclusion in ecological communities

Name of the conference: XVIII Conference on Statistical Physics FisEs'12

Type of event: Conference Geographical area: National

Type of participation: 'Participatory - poster

City of event: Palma de Mallorca, Balearic Islands, Spain

Date of event: 18/10/2012 End date: 20/10/2012

Organising entity: Instituto de Física Interdisciplinar Type of entity: State agency

y Sistemas Complejos

Jose A. Capitan; Sara Cuenda; David Alonso.

13 Title of the work: The stochastic nature of the competitive exclusion principle Name of the conference: 97th Ecological Society of America Annual Meeting

Type of event: Conference Geographical area: Non EU International

Type of participation: Participatory - oral communication **City of event:** Portland (OR), United States of America

Date of event: 05/08/2012 **End date:** 10/08/2012

Organising entity: Ecological Society of America Type of entity: Associations and Groups

Jose A. Capitan; Sara Cuenda; David Alonso.

14 Title of the work: Semantic disambiguation through a graph of co-occurrences

Name of the conference: NoLineal 2012

Type of event: Conference Geographical area: National

Type of participation: Participatory - oral communication

City of event: Zaragoza, Aragon, Spain

Date of event: 02/06/2012 **End date:** 04/06/2012

Organising entity: Universidad de Zaragoza Type of entity: University

Jose A. Capitan; Juan Martinez-Romo; Lourdes Araujo; Javier Borge-Holthoefer; Alex Arenas; Jose A.

Cuesta.

15 Title of the work: Catastrophic regime shifts in model ecosystems as true phase transitions

Name of the conference: Workshop on Critical Transitions in Complex Systems

Type of event: Conference Geographical area: European Union

Type of participation: Participatory - oral communication

City of event: London, United Kingdom







Date of event: 19/03/2012 End date: 23/03/2012

Organising entity: Imperial College Type of entity: University

City organizing entity: London, United Kingdom

Jose A. Capitan.

16 Title of the work: Struggle for space: A new mechanism to viral extinction

Name of the conference: European Conference on Complex Systems ECCS'11

Type of event: Conference Geographical area: European Union

Type of participation: 'Participatory - poster

City of event: Viena, Austria Date of event: 12/09/2011 End date: 16/09/2011

Organising entity: The Complex Systems Society Type of entity: Associations and Groups

Jacobo Aguirre; Susanna C. Manrubia; Jose A. Cuesta; Jose A. Capitan.

17 Title of the work: Scale invariance in marine population dynamics

Name of the conference: XVII Conference on Statistical Physics FisEs'11

Type of event: Conference Geographical area: National

Type of participation: 'Participatory - poster City of event: Barcelona, Catalonia, Spain

Date of event: 02/06/2011 End date: 04/06/2011

Organising entity: Universitat de Barcelona Type of entity: University

Jose A. Capitan; Gustav W. Delius.

18 Title of the work: Struggle for space: Viral extinction through competition for cells

Name of the conference: XI National Conference on Virology

Type of event: Conference Geographical area: National

Type of participation: Participatory - oral communication

City of event: Granada, Andalusia, Spain

Date of event: 29/05/2011 End date: 01/06/2011

Organising entity: Sociedad Española de Virología Type of entity: Associations and Groups

Jose A. Capitan; Jacobo Aguirre; Jose A. Cuesta; Susanna C. Manrubia.

19 Title of the work: Mathematical modeling of robust ecological communities Name of the conference: Workshop of Young Researchers in Mathematics

Type of event: Workshop Geographical area: Non EU International Type of participation: Participatory - invited/keynote Reasons for participation: Upon invitation

Type of entity: University

City of event: Madrid, Community of Madrid, Spain

Date of event: 22/09/2010 End date: 24/09/2010

Organising entity: Universidad Complutense de

Madrid

Jose A. Capitan; Jose A. Cuesta; Jordi Bascompte.

20 Title of the work: A scale-invariant model of marine population dynamics

Name of the conference: Conference on Computational and Mathematical Population Dynamics Geographical area: European Union

Type of event: Workshop







Type of participation: Participatory - oral communication

City of event: Bordeaux, France Date of event: 31/05/2010 End date: 04/06/2010

Organising entity: Universite de Bordeaux Type of entity: University

Jose A. Capitan; Gustav W. Delius.

21 Title of the work: A percolation theory for viral extinctions

Name of the conference: 150 years after Darwin: From Molecular Evolution to Language

Type of event: Conference Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: Palma de Mallorca, Balearic Islands, Spain

Date of event: 23/11/2009 **End date:** 27/11/2009

Organising entity: Instituto de Física Interdisciplinar Type of entity: State agency

y Sistemas Complejos

Jose A. Capitan; Jacobo Aguirre; Jose A. Cuesta; Susanna C. Manrubia.

22 Title of the work: A percolation theory for viral extinctions

Name of the conference: XVI Conference on Statistical Physics FisEs'09

Type of event: Conference Geographical area: National

Type of participation: 'Participatory - poster **City of event:** Huelva, Andalusia, Spain

Date of event: 10/09/2009 **End date:** 12/09/2009

Organising entity: Universidad de Huelva Type of entity: University

Jose A. Capitan; Jacobo Aguirre; Jose A. Cuesta; Susanna C. Manrubia.

23 Title of the work: Quasi-ecosystems and catastrophic extinctions

Name of the conference: XVI Conference on Statistical Physics FisEs'09

Type of event: Conference Geographical area: National

Type of participation: Participatory - oral communication

City of event: Huelva, Andalusia, Spain

Date of event: 10/09/2009 **End date:** 12/09/2009

Organising entity: Universidad de Huelva Type of entity: University

Jose A. Capitan; Jose A. Cuesta; Jordi Bascompte.

24 Title of the work: Quasi-ecosystems and catastrophic extinctions

Name of the conference: 3rd MOSSNOHO Workshop

Type of event: Workshop Geographical area: Regional

Type of participation: Participatory - oral communication **City of event:** Madrid, Community of Madrid, Spain

Date of event: 16/06/2009

Organising entity: Universidad Complutense de Type of entity: University

Madrid

Jose A. Capitan; Jose A. Cuesta.

25 Title of the work: Ecosystem assembly described as a Markov chain

Name of the conference: Stochastic Models in Physics, Biology and Social Sciences

Type of event: Workshop

Geographical area: National







Type of participation: Participatory - invited/keynote Reasons for participation: Upon invitation

talk

City of event: Carmona, Andalusia, Spain

Date of event: 12/02/2009 **End date:** 14/02/2009

Organising entity: Universidad de Sevilla Type of entity: University

Jose A. Capitan; Jose A. Cuesta; Jordi Bascompte.

26 Title of the work: An exactly solvable model for theoretical ecosystem assembly

Name of the conference: British Ecological Society Annual Meeting

Type of event: Conference Geographical area: European Union

Type of participation: Participatory - oral communication

City of event: London, United Kingdom

Date of event: 03/09/2008 **End date:** 05/09/2008

Organising entity: British Ecological Society Type of entity: Associations and Groups

Jose A. Capitan; Jose A. Cuesta.

27 Title of the work: Fundamental Measure functional for mixtures of parallel hard cylinders

Name of the conference: 2nd MOSSNOHO Workshop

Type of event: Workshop Geographical area: Regional

Type of participation: Participatory - oral communication **City of event:** Leganes, Community of Madrid, Spain

Date of event: 30/05/2008

Organising entity: Universidad Carlos III de Madrid Type of entity: University

Jose A. Capitan; Yuri Martinez-Raton; Jose A. Cuesta.

28 Title of the work: Evolutionary dynamics of ecosystems

Name of the conference: XV Conference on Statistical Physics FisEs'08

Type of event: Conference Geographical area: National

Type of participation: 'Participatory - poster **City of event:** Salamanca, Castile and León, Spain

Date of event: 27/03/2008 End date: 29/03/2008

Organising entity: Universidad de Salamanca Type of entity: University

Jose A. Capitan; Jose A. Cuesta.

29 Title of the work: Fundamental Measure functional for mixtures of parallel hard cylinders

Name of the conference: XV Conference on Statistical Physics FisEs'08

Type of event: Conference Geographical area: National

Type of participation: 'Participatory - poster **City of event:** Salamanca, Castile and León, Spain

Date of event: 27/03/2008 End date: 29/03/2008

Organising entity: Universidad de Salamanca Type of entity: University

Jose A. Capitan; Yuri Martinez-Raton; Jose A. Cuesta.

30 Title of the work: Evolutionary dynamics of ecosystems

Name of the conference: 5rd GISC Workshop

Type of event: Workshop Geographical area: Regional

Type of participation: Participatory - oral communication







City of event: Madrid, Community of Madrid, Spain

Date of event: 13/02/2008

Organising entity: Universidad Pontificia Comillas
Type of entity: University

Jose A. Capitan; Jose A. Cuesta; Jordi Bascompte.

31 Title of the work: Fundamental Measure Theory revisited: The model of parallel hard hexagons

Name of the conference: XIV Conference on Statistical Physics FisEs'06

Type of event: Conference Geographical area: National

Type of participation: 'Participatory - poster **City of event:** Granada, Andalusia, Spain

Date of event: 14/09/2006 **End date:** 16/09/2006

Organising entity: Universidad Carlos III de Madrid Type of entity: University

Jose A. Capitan; Jose A. Cuesta.

32 Title of the work: Why have we calculated a functional for parallel hard hexagons?

Name of the conference: 3rd GISC Workshop

Type of event: Workshop Geographical area: Regional

Type of participation: Participatory - oral communication **City of event:** Alcala de Henares, Community of Madrid, Spain

Date of event: 25/01/2006

Organising entity: Universidad Carlos III de Madrid Type of entity: University

Jose A. Capitan; Jose A. Cuesta.

Works submitted to national or international seminars, workshops and/or courses

1 Title of the work: Coexistence of many species in random ecological communities

Name of the event: Seminar at the Department of Applied Mathematics, Building Engineering School

Type of event: Seminar

Reasons for participation: Upon invitation

Geographical area: Regional

City of event: Madrid, Community of Madrid, Spain

Date of event: 25/01/2018

Organising entity: Universidad Politécnica de Type of entity: University

Madrid

2 Title of the work: Stochastic models in biological systems

Name of the event: Mathematics of complexity and its applications. Ph.D. Program on Mathematical

Engineering, Statistics and Operations Research

Type of event: Seminar

Reasons for participation: Speaker **Geographical area:** Regional

City of event: Madrid, Community of Madrid, Spain

Date of event: 26/01/2017

Organising entity: Universidad Politécnica de Type of entity: University

Madrid

3 Title of the work: Time-varying networks describing global linguistic diversity

Name of the event: Seminar at the Department of Applied Physics, Agronomic Engineering School

Type of event: Seminar







Reasons for participation: Upon invitation

Geographical area: Regional

City of event: Madrid, Community of Madrid, Spain

Date of event: 18/05/2016

Organising entity: Universidad Politécnica de Type of entity: University

Madrid

4 Title of the work: Networks of contacts between linguistic groups are quasi-interval

Name of the event: Seminar at the Department of Ecological Modeling

Type of event: Seminar

Reasons for participation: Upon invitation Geographical area: European Union City of event: Leipzig, Germany Date of event: 28/04/2015

Organising entity: Helmholtz Centre for Type of entity: R&D Centre

Environmental Research

5 Title of the work: Topological properties of genotype networks of model proteins

Name of the event: Group seminar (Department of Molecular Evolution)

Type of event: Seminar

Reasons for participation: Speaker

Geographical area: Regional

City of event: Torrejon de Ardoz, Community of Madrid, Spain

Date of event: 08/04/2013

Organising entity: Centro de Astrobiología Type of entity: State agency

6 Title of the work: Mathematical modeling of robust ecological communities

Name of the event: Inter-group seminar series of the Department of Mathematics

Type of event: Seminar

Reasons for participation: Speaker **Geographical area:** Regional

City of event: Leganes, Community of Madrid, Spain

Date of event: 12/11/2010

Organising entity: Universidad Carlos III de Madrid Type of entity: University

7 Title of the work: Statistical mechanics of ecosystem assembly

Name of the event: Theoretical ecology group weekly seminar (Department of Biology)

Type of event: Seminar

Reasons for participation: Speaker Geographical area: European Union City of event: York, United Kingdom

Date of event: 13/10/2009

Organising entity: University of York Type of entity: University







R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

Committee title: Fulbright Program for American researcher awardee selection

Primary (UNESCO code): 220000 - Physics Secondary (UNESCO code): 240000 - Life Science

Affiliation entity: Fulbright Commission Type of entity: Foundation

Start-End date: 15/01/2018 - 15/01/2018

Organization of R&D activities

1 Title of the activity: International conference on challenges in mathematical architecture CCMA2019

Type of activity: International Conference Geographical area: European Union

Convening entity: Universidad Politécnica de Madrid Type of entity: University

City convening entity: Madrid, Community of Madrid, Spain

Type of participation: Organiser

Start-End date: 11/07/2019 - 13/07/2019

2 Title of the activity: MatFor17: mathematics applied to forestry engineering

Type of activity: Research and outreach activities of Geographical area: National

the Department of Applied Mathematics

Convening entity: Universidad Politécnica de Madrid Type of entity: University

City convening entity: Madrid, Community of Madrid, Spain

Type of participation: Organiser

Start-End date: 14/12/2017 - 15/12/2017

Title of the activity: Mathematics and Society: Cooperation, Social Networks and Complexity

Type of activity: International summer school

Geographical area: European Union

Convening entity: Universidad Carlos III de Madrid **Type of entity:** University **City convening entity:** San Lorenzo de El Escorial, Community of Madrid, Spain

Type of participation: Secretary

Start-End date: 15/07/2008 - 18/07/2008

4 Title of the activity: Understanding the eco-evolutionary assembly of species-rich communities: The role of

Geographical area: European Union

Geographical area: European Union

Type of entity: R&D Centre

stochastic community models

Type of activity: Special session of the conference

Mathematical Models in Ecology and Evolution

Convening entity: Centre for Interdisciplinary

Research in Biology

City convening entity: París, Île de France, France

Type of participation: Organiser

Start date: 08/07/2015

5 Title of the activity: Complex Networks in Ecology II

Type of activity: Satellite symposium of the NetSci

2015 International Conference on Complex Networks

Convening entity: Universidad de Zaragoza Type of entity: University







City convening entity: Zaragoza, Aragon, Spain

Type of participation: Organiser

Start date: 01/06/2015

6 Title of the activity: How do complex networks improve our knowledge of Biology?

Type of activity: Special Session of the AIMS 2014 Geographical area: European Union

International Conference

Convening entity: Instituto de Ciencias Matemáticas Type of entity: State agency

City convening entity: Madrid, Community of Madrid, Spain

Type of participation: Organiser

Start date: 09/07/2014

7 Title of the activity: Complex Networks in Ecology

Type of activity: Satellite symposium of the NetSci Geographical area: Non EU International

2014 International Conference on Complex Networks

Convening entity: University of Berkeley Type of entity: University

City convening entity: Berkeley (CA), United States of America

Type of participation: Organiser

Start date: 03/06/2014

Evaluation and revision of R&D projects and articles

1 Performed tasks: Reviewer of the JCR journal 'BMC Evolutionary Biology'

Entity where activity was carried out: BioMed Central

Type of activity: Review of articles in scientific or Frequency of the activity: 1

technological journals

Performed tasks: Reviewer of the JCR journal 'Ecography'

Entity where activity was carried out: Lund University

Type of activity: Review of articles in scientific or Frequency of the activity: 1

technological journals

3 Performed tasks: Reviewer of the JCR journal 'Ecological Complexity'

Entity where activity was carried out: Elsevier

Type of activity: Review of articles in scientific or Frequency of the activity: 1

technological journals

4 Performed tasks: Reviewer of the JCR journal 'Ecological Modelling'

Entity where activity was carried out: Elsevier

Type of activity: Review of articles in scientific or Frequency of the activity: 4

technological journals

5 Performed tasks: Reviewer of the JCR journal 'Ecology Letters'

Entity where activity was carried out: French National Centre for Scientific Research

Type of activity: Review of articles in scientific or

Frequency of the activity: 1

technological journals

6 Performed tasks: Reviewer of the JCR journal 'European Physical Journal B'

Entity where activity was carried out: European Physical Society

Type of activity: Review of articles in scientific or Frequency of the activity: 2

technological journals







7 Performed tasks: Reviewer of the JCR journal 'Europhysics Letters' Entity where activity was carried out: European Physical Society

Type of activity: Review of articles in scientific or Frequency of the activity: 2

technological journals

8 Performed tasks: Reviewer of the JCR journal 'Journal of Theoretical Biology'

Entity where activity was carried out: Elsevier

Type of activity: Review of articles in scientific or Frequency of the activity: 3

technological journals

9 Performed tasks: Reviewer of the JCR journal 'Journal of the Royal Society Interface'

Entity where activity was carried out: Royal Society of London

Type of activity: Review of articles in scientific or Frequency of the activity: 5

technological journals

10 Performed tasks: Reviewer of the JCR journal 'PLoS Computational Biology'

Entity where activity was carried out: Public Library of Science

Type of activity: Review of articles in scientific or Frequency of the activity: 3

technological journals

11 Performed tasks: Reviewer of the JCR journal 'PLoS ONE'

Entity where activity was carried out: Public Library of Science

Type of activity: Review of articles in scientific or Frequency of the activity: 3

technological journals

12 Performed tasks: Reviewer of the JCR journal 'Physica A'

Entity where activity was carried out: Elsevier

Type of activity: Review of articles in scientific or Frequency of the activity: 1

technological journals

13 Performed tasks: Reviewer of the JCR journal 'Physical Review E'

Entity where activity was carried out: American Physical Society

Type of activity: Review of articles in scientific or Frequency of the activity: 31

technological journals

14 Performed tasks: Reviewer of the JCR journal 'Physical Review Letters'

Entity where activity was carried out: American Physical Society

Type of activity: Review of articles in scientific or Frequency of the activity: 8

technological journals

15 Performed tasks: Reviewer of the JCR journal 'Proceedings of the Royal Society B'

Entity where activity was carried out: Royal Society of London

Type of activity: Review of articles in scientific or Frequency of the activity: 1

technological journals

16 Performed tasks: Reviewer of the JCR journal 'Quaternary International'

Entity where activity was carried out: Elsevier

Type of activity: Review of articles in scientific or Frequency of the activity: 1

technological journals







17 Performed tasks: Reviewer of the JCR journal 'Scientific Reports' Entity where activity was carried out: Nature Publishing Group

Type of activity: Review of articles in scientific or Frequency of the activity: 1

technological journals

Other achievements

Stays in public or private R&D centres

1 Entity: University of Chicago Type of entity: R&D Centre

Faculty, institute or centre: Department of Ecology and Evolution

City of entity: Chicago, United States of America

Start-End date: 18/03/2018 - 19/04/2018 Duration: 1 month - 1 day
Funding entity: Universidad Politécnica de Madrid Type of entity: University

Goals of the stay: Guest

Provable tasks: Collaboration with Prof. Stefano Allesina. Stability of evolutionary systems with

intra-specific variability.

2 Entity: Centro de Estudios Avanzados de Blanes Type of entity: State agency

City of entity: Blanes, Catalonia, Spain

Goals of the stay: Guest

Provable tasks: Collaboration with Dr. David Alonso and Dr. Emilio O. Casamayor. Bridging theory and

data in the description of microbial communities.

3 Entity: Centro de Estudios Avanzados de Blanes Type of entity: State agency

City of entity: Blanes, Catalonia, Spain

Start-End date: 27/07/2017 - 02/08/2017 **Duration:** 7 days

Goals of the stay: Guest

Provable tasks: Collaboration with Dr. David Alonso and Dr. Emilio O. Casamayor. Bridging theory and

data in the description of microbial communities.

4 Entity: University of Chicago Type of entity: R&D Centre

Faculty, institute or centre: Department of Ecology and Evolution

City of entity: Chicago, United States of America

Start-End date: 01/04/2017 - 30/06/2017 **Duration:** 3 months

Funding entity: Fulbright Association and Spanish R&D Ministry

Goals of the stay: Guest

Provable tasks: Fulbright grant awardee. Collaboration with Prof. Stefano Allesina. Study of mathematical

conditions for species coexistence.

5 Entity: Centro de Estudios Avanzados de Blanes Type of entity: State agency

City of entity: Blanes, Catalonia, Spain

Start-End date: 02/02/2017 - 10/02/2017 **Duration:** 8 days

Goals of the stay: Guest

Provable tasks: Collaboration with Dr. David Alonso and Dr. Emilio O. Casamayor. Bridging theory and

data in the description of microbial communities.







6 Entity: Helmholtz Centre for Environmental Research Type of entity: Innovation and Technology Centres

Faculty, institute or centre: Department of Ecological Modelling

City of entity: Leipzig, Germany

Start-End date: 05/12/2016 - 09/12/2016 **Duration:** 5 days

Funding entity: Helmholtz Centre for Environmental Research

Goals of the stay: Guest

Provable tasks: Collaboration with Dr. Thorsten Wiegand and Prof. Andreas Huth. Spatial models in

ecologicial communities.

7 Entity: Centro de Estudios Avanzados de Blanes Type of entity: State agency

City of entity: Blanes, Catalonia, Spain

Goals of the stay: Guest

Provable tasks: Collaboration with Dr. David Alonso and Dr. Emilio O. Casamayor. Bridging theory and

data in the description of microbial communities.

8 Entity: Helmholtz Centre for Environmental Research Type of entity: Innovation and Technology Centres

Faculty, institute or centre: Department of Ecological Modelling

City of entity: Leipzig, Germany

Start-End date: 26/04/2015 - 30/04/2015 **Duration**: 5 days

Funding entity: Helmholtz Centre for Environmental Research

Goals of the stay: Guest

Provable tasks: Collaboration with Dr. Thorsten Wiegand. Spatial models in ecological communities.

9 Entity: University of York Type of entity: University

Faculty, institute or centre: Biology City of entity: York, United Kingdom

Start-End date: 04/06/2010 - 04/07/2010 **Duration**: 1 month

Funding entity: Universidad Carlos III de Madrid Type of entity: University

Name of programme: Programa propio (Universidad Carlos III)

Goals of the stay: Doctorate

Provable tasks: Mathematical modeling of marine ecosystem dynamics. Supervised by Prof. Richard Law

and Dr. Gustav W. Delius.

10 Entity: University of York

Type of entity: University

Faculty, institute or centre: Biology **City of entity:** York, United Kingdom

Start-End date: 20/09/2009 - 20/11/2009 **Duration**: 2 months

Funding entity: European Science Foundation **Type of entity:** Foundation

City funding entity: Strassbourg, France

Name of programme: COST Action MP0801, Short Term Scientific Mission 05270

Goals of the stay: Doctorate

Provable tasks: Mathematical modeling of marine ecosystem dynamics. Supervised by Prof. Richard Law

and Dr. Gustav W. Delius.







Obtained grants and scholarships

1 Name of the grant: Fulbright Visiting Scholar Program

City awarding entity: Aims: Long-term visits

Awarding entity: Ministerio de Ciencia e Innovación - Fulbright Comission

Amount of the grant: 11.281 €

Conferral date: 01/04/2017 Duration: 3 months

End date: 30/06/2017

Entity where activity was carried out: University of Chicago Faculty, institute or centre: Department of Ecology and Evolution

2 Name of the grant: Juan de la Cierva post-doctoral grant

Aims: Post-doctoral

Awarding entity: Ministerio de Ciencia e Innovación Type of entity: Public Research Body

Conferral date: 05/12/2011 Duration: 3 years

End date: 31/12/2014

Entity where activity was carried out: Consejo Superior de Investigaciones Científicas

3 Name of the grant: Pre-doctoral research assistant (Personal investigador de apoyo). Conferral decision at

BOCM 7040/2006 **Aims:** Pre-doctoral

Awarding entity: Consejería de Educación Type of entity: Public research body

Conferral date: 19/12/2006 Duration: 4 years

End date: 31/01/2011

Entity where activity was carried out: Universidad Carlos III de Madrid

Scientific societies and professional associations

Name of the society: Spanish Royal Society of Physics (Real Sociedad Española de Física)

Affiliation entity: REAL SOCIEDAD ESPAÑOLA DE FISICA **City affiliation entity:** Madrid, Community of Madrid, Spain

Start-End date: 20/10/2010 - 07/01/2015

Co-operation networks

Name of the network: Thematic network on 'Socio-Econo-Physics'

Participating entity/entities: Universidad Autónoma **Type of entity:** University; Univer

Universidad de Burgos; Universidad de Zaragoza; Universidad de las Islas Baleares; Universitat Rovira i

Virgili; Universitat de Barcelona

Start date: 01/10/2008 Duration: 1 year - 3 months







Prizes, mentions and distinctions

1 Description: Outstanding contribution in reviewing (Applied Mathematics and Computation)

Awarding entity: Elsevier Conferral date: 03/2018

2 Description: Outstanding contribution in reviewing

Awarding entity: Public Library of Science

Conferral date: 25/02/2016

3 Description: Outstanding contribution in reviewing (Journal of Theoretical Biology)

Awarding entity: Elsevier **Conferral date:** 09/2015

4 Description: Ph.D. special award (Premio extraordinario de Doctorado)

Awarding entity: Universidad Carlos III de Madrid Type of entity: University

Conferral date: 01/11/2011

5 Description: Degree special award (Premio extraordinario de Licenciatura)

Awarding entity: Universidad Complutense de Type of entity: University

Madrid

Conferral date: 01/06/2001

6 Description: 'Promoción Físicos-60' award

Awarding entity: Facultad de Ciencias Físicas

Type of entity: University Centres and Structures

and Associated Bodies

Conferral date: 15/11/1998

Other distinctions (professional or business career)

1 Description: Civil servant (high-school teacher of mathematics, 'Cuerpo de Profesores de Enseñanza

Secundaria')

Geographical area: Regional

Awarding entity: Consejería de Educación Type of entity: Public body

City awarding entity: Madrid, Community of Madrid, Spain

Conferral date: 01/09/2002

2 Description: Software developer Geographical area: Regional

Awarding entity: Grupo de Mecánica del Vuelo Type of entity: Business

City awarding entity: Madrid, Community of Madrid, Spain

Conferral date: 22/10/2001







Obtained accreditations/recognitions

1 Description: Lecturer accreditation (Acreditación de Ayudante Doctor)

Accrediting entity: Agencia Nacional de Evaluación Type of entity: National Body

de la Calidad y Acreditación

City accrediting entity: Madrid, Spain Date of recognition: 14/11/2018

2 Description: Private University Professor accreditation (Acreditación de Contratado Doctor)

Accrediting entity: Agencia Nacional de Evaluación Type of entity: National Body

de la Calidad y Acreditación

City accrediting entity: Madrid, Spain Date of recognition: 14/11/2018

3 Description: Senior Lecturer accreditation (Acreditación de Contratado Doctor)

Accrediting entity: Agencia Nacional de Evaluación Type of entity: National Body

de la Calidad y Acreditación

City accrediting entity: Madrid, Spain Date of recognition: 14/11/2018

4 Description: Tenure-track accreditation (Acreditación de Profesor Titular de Universidad)

Accrediting entity: Agencia Nacional de Evaluación Type of entity: Agencia Nacional

de la Calidad y Acreditación **Date of recognition:** 14/03/2016

5 Description: Lecturer accreditation (Acreditación de Ayudante Doctor)

Accrediting entity: Agencia de Calidad y Type of entity: Public regional body

Acreditación Prospectiva

City accrediting entity: Madrid, Community of Madrid, Spain

Date of recognition: 10/06/2011

6 Description: Private University Professor accreditation (Acreditación de Profesor de Universidad Privada)

Accrediting entity: Agencia de Calidad y Type of entity: Public regional body

Acreditación Prospectiva

City accrediting entity: Madrid, Community of Madrid, Spain

Date of recognition: 10/06/2011

7 **Description:** Senior Lecturer accreditation (Acreditación de Contratado Doctor)

Accrediting entity: Agencia de Calidad y Type of entity: Public regional body

Acreditación Prospectiva

City accrediting entity: Madrid, Community of Madrid, Spain

Date of recognition: 10/06/2011



