



**María Edith Padrón
Fernández**

Date of document: 19/06/2013

v 1.3.0

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María Edith Padrón Fernández

Surname(s): **Padrón Fernández**
 Name: **María Edith**
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Current professional situation

Name of institution: Universidad de La Laguna

Department, service, etc.: Matemática Fundamental, Facultad de Matemáticas

Category/position or post: Profesora Titular de Universidad

Type of contract: Civil servant

Type of dedication: Full time

Previous posts and activities

	Name of institution	Category/position or post	Start date
1	Departamento de Matemática Fundamental	Subdirectora	08/02/2000
2	Departamento de Matemática Fundamental de la Universidad de La Laguna	Secretaria	08/11/1995
3	Universidad de La Laguna	Profesor titular interino de universidad	23/03/1993
4	Universidad de La Laguna	Profesora asociada a tiempo completo	09/12/1986

1 Name of institution: Departamento de Matemática Fundamental

Category/position or post: Subdirectora

Start date: 08/02/2000

End date: 12/12/2006

2 Name of institution: Departamento de Matemática Fundamental de la Universidad de La Laguna

Category/position or post: Secretaria

Start date: 08/11/1995

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CURRÍCULUM VITAE NORMALIZADO

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End date: 07/02/2000

3 **Name of institution:** Universidad de La Laguna
Category/position or post: Profesor titular interino de universidad
Start date: 23/03/1993
End date: 25/04/1993

4 **Name of institution:** Universidad de La Laguna
Category/position or post: Profesora asociada a tiempo completo
Start date: 09/12/1986
End date: 22/03/1993



Official training received

University education

University degrees, engineering degrees or master's degrees

Name of qualification: Licenciado en Matemáticas
institution issuing the qualification: Universidad de La Laguna
Date of qualification: 30/06/1986

Doctorates

Doctorate programme: Doctor en Matemáticas
University issuing the qualification: Universidad de La Laguna
Date of qualification: 01/03/1991

Language skills

Language	Speaking	Reading	Writing
English	Elementary	Advanced	Advanced
French	Intermediate	Elementary	Intermediate

Teaching activity

Subjects given

- Name of subject/course:** Fundamentos Matemáticos
Qualification: Grado en Ingeniería Civil
Start date: 2012
Date of the last time: 2012
institution: Universidad de La Laguna
Faculty, institute or centre: Escuela de Ingeniería
- Name of subject/course:** Fundamentos Matemáticos
Qualification: Grado en Mecánica
Start date: 2011
Date of the last time: 2011
institution: Universidad de La Laguna
Faculty, institute or centre: Escuela de Ingeniería



- 3** **Name of subject/course:** Fundamentos Matemáticos
Qualification: Grado en Ingeniería Electrónica Industrial y Automática
Start date: 2009
Date of the last time: 2012
institution: Universidad de La Laguna
Faculty, institute or centre: Escuela de Ingeniería
- 4** **Qualification:** Doctorado en Matemáticas
Start date: 1992
institution: Universidad de La Laguna
Faculty, institute or centre: Facultad de Matemáticas
- 5** **Name of subject/course:** Asignaturas de Geometría y Topología
Qualification: Licenciado en Matemáticas
Start date: 1987
institution: Universidad de La Laguna
Faculty, institute or centre: Facultad de Matemáticas
- 6** **Name of subject/course:** Software Matemático I; Mecánica Geométrica
Qualification: Máster Universitario en Matemática Avanzada: Aplicaciones y Educación
institution: Universidad de La Laguna
Faculty, institute or centre: Facultad de Matemáticas

Supervision of dissertations and/or final projects

- 1** **Project title:** Introducción a la Geometría de Poisson
Type of project: Trabajo académicamente dirigido
University issuing the qualification: Universidad de La Laguna
Doctorate student: Bencomo Domínguez Martín
Mark: Sobresaliente
Date of reading: 28/06/2012
- 2** **Project title:** Formación del profesorado de Educación Secundaria Obligatoria, Bachillerato, Formación Profesional y enseñanza de idiomas
Type of project: Trabajo fin de Master
University issuing the qualification: Universidad de La Laguna
Doctorate student: Pascual Díaz Valenzuela
Mark: 8,5 Notable
Date of reading: 15/07/2011
- 3** **Project title:** La Geometría de la Ecuación de Hamilton-Jacobi
Type of project: Trabajo académicamente dirigido
University issuing the qualification: Universidad de La Laguna
Doctorate student: Daniel Rodríguez Díaz
Mark: 10 Sobresaliente
Date of reading: 09/12/2010
- 4** **Project title:** Teoría de homología y cohomología en variedades de Jacobi
Type of project: Doctoral thesis
Co-director of thesis: Juan Carlos Marrero González



University issuing the qualification: Universidad de La Laguna
Doctorate student: Belén López Brito
Mark: Sobresaliente Cum Laude
Date of reading: 13/12/2002

- 5** **Project title:** Sobre la cohomología de De Rham de variedades localmente D-conforme cosimplécticas paralelas
Type of project: Minor thesis
Co-director of thesis: Juan Carlos Marrero González
University issuing the qualification: Universidad de La Laguna
Doctorate student: Diana de Las Nieves Sosa Martín
Mark: Sobresaliente
Date of reading: 1999

Academic tuition of students

Programme: Improved performance
institution: Facultad de Matemáticas
Number of tutored students: 4

Other activities/achievements not included above

Description of the activity: 5 quinquenios concedidos desde 1986 hasta 2011
Organising institution: Universidad de La Laguna

Experience in science and technology

Participation in research, development or innovation groups/teams

Name of the group: Geometría Diferencial y Mecánica Geométrica
Aims of the group: Investigación
Name of the group's manager: Juan Carlos Marrero González
Institution the group belongs to: Universidad de La Laguna



Scientific or technological activity

Participation in R&D&I projects funded in competitive calls by public or private bodies

- 1** **Name of the project:** MECANICA GEOMETRICA, TEORIAS CLASICAS DE CAMPOS Y ESTRUCTURAS DE POISSON
Project area: National
Role: Researcher
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Funding institution or bodies:
Secretaría de Estado de Investigación, Desarrollo e Innovación
Code acc. to the funding institution: MTM2012-34478
Start date: 01/02/2013
End date: 31/01/2016
Total amount: 28.665
- 2** **Name of the project:** INVESTIGACIONES EN MECÁNICA GEOMÉTRICA
Project area: Regional
Role: Researcher
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Number of researchers: 7
Funding institution or bodies:
Agencia Canaria de InvestigaciónInnovación y Sociedad de la Información
Code acc. to the funding institution: ProID20100210
Start date: 08/01/2011
End date: 07/01/2014
Participating bodies: Universidad de La Laguna
Total amount: 30.000
- 3** **Name of the project:** GEOMETRÍA, MECÁNICA Y CONTROL
Project area: National
Role: Scientific coordinator
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Edith Padrón Fernández
Funding institution or bodies:
Secretaría de Estado de Investigación, Desarrollo e Innovación
Name of the programme: Acción Complementaria
Code acc. to the funding institution: MTM2011-15725-E
Start date: 01/05/2012
End date: 30/09/2013
Total amount: 15.000
- 4** **Name of the project:** FP7-PEOPLE-2009-IRSES, Marie Curie International Fellowships Proposal n 246981
– Acronym: GEOMECH. Geometric Mechanics.
Project area: European Union



Role: Researcher

Institution where project took place: Universidad de Gante (Belgica)

City: Belgium

Head(s) researcher(s): Frans Cantrijn; David Martín De Diego

Funding institution or bodies:

European Commission Directorate-Generale for Science Research

Code acc. to the funding institution: FP7-PEOPLE-2009-IRSES, 246981

Start date: 2010

End date: 2013

Total amount: 158.400

5 Name of the project: GEOMETRIA, MECANICA Y TEORIAS CLASICAS DE CAMPOS. ALGUNOS PROBLEMAS VARIACIONALES

Project area: National

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Number of researchers: 8

Number of people/year: 8

Funding institution or bodies:

Ministerio de Ciencia e Innovación

Type of institution: Body, others

Code acc. to the funding institution: MTM2009-13383

Start date: 01/01/2010

End date: 31/12/2012

Total amount: 49.489,01

6 Name of the project: GEOMETRÍA, MECÁNICA Y CONTROL

Project area: National

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Funding institution or bodies:

Ministerio de Ciencia e Innovación

Type of institution: Body, others

Name of the programme: Acción Complementaria

Code acc. to the funding institution: MTM2010-12116-E

Start date: 01/02/2011

End date: 30/07/2012

Total amount: 15.000

7 Name of the project: AYUDAS PARA MANTENIMIENTO DE GRUPO DE INVESTIGACIÓN CONSOLIDADOS

Project area: ULL

Role: Researcher

Institution where project took place: Universidad de La Laguna

Number of researchers: 6

Funding institution or bodies:

Universidad de La Laguna

Type of institution: University

Start date: 2012

End date: 2012

Total amount: 3.500

**8 Name of the project:** JORNADAS IMATH. REDES TEMÁTICAS ESPAÑOLAS**Project area:** National**Role:** Scientific coordinator**Institution where project took place:** Universidad de La Laguna**Head(s) researcher(s):** Edith Padrón Fernández**Number of researchers:** 2**Funding institution or bodies:**

i-Math, Proyecto Consolider

Code acc. to the funding institution: SAIRT-CEXT-0463**Start date:** 2011**End date:** 2012**Total amount:** 15.700**9 Name of the project:** CONSOLIDER MATHEMATICA**Project area:** National**Role:** Researcher**Institution where project took place:** Universidad de Cantabria**Head(s) researcher(s):** Enrique Zuazua**Funding institution or bodies:**

Ministerio de Ciencia e Innovación

Code acc. to the funding institution: CSD2006-00032**Start date:** 2006**End date:** 2012**Total amount:** 7.500.000**10 Name of the project:** GEOMETRIA DIFERENCIAL, MECÁNICA Y TEORÍA DE CAMPOS: TEORÍA DE HAMILTON-JACOBI Y APLICACIONES ARMÓNICAS**Project area:** Regional**Role:** Researcher**Institution where project took place:** Universidad de La Laguna**Head(s) researcher(s):** Juan Carlos Marrero González**Number of researchers:** 8**Funding institution or bodies:**

Agencia Canaria de Investigación Innovación y Sociedad de la Información

Code acc. to the funding institution: SOLSUBC200801000238**Start date:** 06/10/2009**End date:** 02/11/2011**Total amount:** 38.500**11 Name of the project:** GEOMETRÍA, MECÁNICA Y CONTROL**Project area:** National**Role:** Researcher**Institution where project took place:** Universidad de La Laguna**Head(s) researcher(s):** Juan Carlos Marrero González**Funding institution or bodies:**

Ministerio de Ciencia e Innovación

Type of institution: Body, others**Name of the programme:** Acción Complementaria**Code acc. to the funding institution:** MTM2009-08166-E



Start date: 01/02/2010

End date: 30/04/2011

Total amount: 20.000

12 Name of the project: AYUDAS PARA MANTENIMIENTO DE GRUPOS DE INVESTIGACIÓN CONSOLIDADOS

Project area: ULL

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Funding institution or bodies:

Universidad de La Laguna

Type of institution: University

Name of the programme: Ayudas a la investigación de la ULL

Start date: 2011

End date: 2011

Total amount: 4.000

13 Name of the project: GEOMETRÍA, MECANICA Y CONTROL

Project area: National

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Funding institution or bodies:

Ministerio de Ciencia e Innovación

Name of the programme: Acción complementaria

Code acc. to the funding institution: MTM2008-03606-E

Start date: 20/01/2009

End date: 20/04/2010

Total amount: 12.000

14 Name of the project: AYUDAS PARA MANTENIMIENTO DE GRUPOS DE INVESTIGACIÓN CONSOLIDADOS

Project area: ULL

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Funding institution or bodies:

Universidad de La Laguna

Type of institution: University

Name of the programme: Ayudas a la investigación de la ULL

Start date: 2010

End date: 2010

Total amount: 4.386

15 Name of the project: Proyecto conjunto MATHEMATICAL INSTITUTE, POLISH ACADEMY OF SCIENCES-ICMAT, CSIC

Project area: European Union

Role: Researcher

Institution where project took place: Instituto de Matemáticas y Física Fundamental, CSIC

Head(s) researcher(s): Janusz Grabowski; Manuel de León Rodríguez

Number of researchers: 10



Funding institution or bodies:

CSIC y la Academia de Ciencias de Polonia

Code acc. to the funding institution: P2008PL01

Start date: 2009

End date: 2010

16 Name of the project: MECÁNICA GEOMÉTRICA Y TEORÍAS CLÁSICAS DE CAMPOS EN EL CONTEXTO DE ALGEBROIDES Y GRUPOIDES DE LIE

Project area: National

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Number of researchers: 4

Funding institution or bodies:

Ministerio de Educación y Ciencia

Code acc. to the funding institution: MTM2006-03322

Start date: 01/10/2006

End date: 30/09/2009

Total amount: 46.669,7

17 Name of the project: GEOMETRÍA, MECÁNICA Y CONTROL

Project area: National

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Funding institution or bodies:

MINISTERIO DE EDUCACION Y CIENCIA

City: Spain

Name of the programme: Acciones complementarias

Code acc. to the funding institution: MTM2007-30168-E

Start date: 20/01/2008

End date: 20/04/2009

Total amount: 9.000

18 Name of the project: JORNADAS BUSCANDO LO ÓPTIMO

Project area: Regional

Role: Scientific coordinator

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Edith Padrón Fernández

Number of researchers: 3

Funding institution or bodies:

AGENCIA CANARIA DE INVESTIGACIÓN, INNOVACIÓN Y SOCIEDAD DE LA INFORMACIÓN

Name of the programme: Divulgación

Code acc. to the funding institution: Congre200901000031

Start date: 2009

End date: 2009

Total amount: 1.425



- 19** **Name of the project:** GEOMETRÍA, MECÁNICA Y CONTROL
Project area: National
Role: Researcher
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Funding institution or bodies:
MINISTERIO DE EDUCACION Y CIENCIA
City: Spain

Name of the programme: Acciones complementarias
Code acc. to the funding institution: MTM2006-27467-E
Start date: 15/01/2007
End date: 26/06/2008
Total amount: 12.000
- 20** **Name of the project:** AYUDAS PARA MANTENIMIENTO DE GRUPOS DE INVESTIGACIÓN CONSOLIDADOS
Project area: ULL
Role: Researcher
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Funding institution or bodies:
Universidad de La Laguna **Type of institution:** University

Name of the programme: Ayudas a la investigación ULL
Code acc. to the funding institution: MGC 08/16
Start date: 2008
End date: 2008
Total amount: 6.000
- 21** **Name of the project:** XV INTERNATIONAL WORKSHOP ON GEOMETRY AND PHYSICS (SATELITE DE ICM2006)
Project area: National
Role: Researcher
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Number of researchers: 5
Funding institution or bodies:
MINISTERIO DE EDUCACION Y CIENCIA

Name of the programme: Acciones complementarias
Code acc. to the funding institution: MTM2005-24556-E
Start date: 01/09/2006
End date: 13/12/2007
Total amount: 3.000
- 22** **Name of the project:** AYUDAS PARA MANTENIMIENTO DE GRUPOS DE INVESTIGACIÓN CONSOLIDADOS
Project area: ULL
Role: Researcher
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Funding institution or bodies:



Universidad de La Laguna

Type of institution: University

Name of the programme: Ayudas a la investigación

Code acc. to the funding institution: MGC/07/24

Start date: 2007

End date: 2007

Total amount: 6.000

23 Name of the project: FIRST INTERNATIONAL SUMMER SCHOOL ON GEOMETRY, MECHANICS, AND CONTROL

Project area: National

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): David Martín De Diego

Funding institution or bodies:

I+MATH

Start date: 2007

End date: 2007

Total amount: 6.000

24 Name of the project: LA MUJER COMO ELEMENTO INNOVADOR EN LA CIENCIA

Project area: National

Role: Scientific coordinator

Institution where project took place: Universidad de La Laguna **Type of institution:** University

Head(s) researcher(s): Edith Padrón Fernandez

Number of researchers: 11

Funding institution or bodies:

Fundación Española para la Ciencia y la Tecnología **Type of institution:** Body, others

Name of the programme: Divulgación Científica

Code acc. to the funding institution: CCT0505-07-00418

Start date: 2007

End date: 2007

Total amount: 20.000

25 Name of the project: MATEMATICALIA

Project area: National

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Isabel Marrero Rodríguez

Number of researchers: 13

Funding institution or bodies:

MINISTERIO DE EDUCACION Y CIENCIA

Name of the programme: Divulgación

Code acc. to the funding institution: CCT005-06-00358

Start date: 2007

End date: 2007

Total amount: 9.200



- 26** **Name of the project:** AYUDAS PARA MANTENIMIENTO DE GRUPOS DE INVESTIGACIÓN CONSOLIDADOS
Project area: ULL
Role: Researcher
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Funding institution or bodies:
Universidad de La Laguna **Type of institution:** University
Name of the programme: Ayudas a la Investigación de la ULL
Code acc. to the funding institution: MGC/06/25
Start date: 2006
End date: 2007
Total amount: 1.500
- 27** **Name of the project:** EQUIPAMIENTO E INFRAESTRUCTURA CIENTÍFICO-TECNOLÓGICA
Project area: Regional
Role: Researcher
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Number of researchers: 12
Funding institution or bodies:
Dirección General de Universidades del Gobierno de Canarias
Name of the programme: Equipamiento científico
Code acc. to the funding institution: EQU2005/045
Start date: 2006
End date: 2007
Total amount: 10.880,43
- 28** **Name of the project:** SOCIEDAD, CIENCIA, TECNOLOGÍA Y MATEMÁTICAS 2006
Project area: National
Role: Researcher
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Isabel Marrero Rodríguez
Number of researchers: 12
Funding institution or bodies:
MINISTERIO DE EDUCACION Y CIENCIA
Name of the programme: Divulgación
Code acc. to the funding institution: CCT003-05-00469
Start date: 2006
End date: 2006
Total amount: 24.800
- 29** **Name of the project:** ALGEBROIDES DE LIE:RELACIONES CON GRUPOIDES DE JACOBI, TEORIAS DE CAMPOS Y GEOMETRÍA MULTISIMPLÉCTICA
Project area: National
Role: Researcher
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Number of researchers: 4
Funding institution or bodies:



MINISTERIO DE CIENCIA Y TECNOLOGÍA

Code acc. to the funding institution: BFM2003-01319

Start date: 2003

End date: 2006

Total amount: 102.040

30 Name of the project: SOCIEDAD, CIENCIA, TECNOLOGÍA Y MATEMÁTICAS 2005

Project area: National

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Isabel Marrero Rodríguez

Number of researchers: 12

Funding institution or bodies:

Ministerio de Ciencia y Tecnología

Name of the programme: Divulgación

Code acc. to the funding institution: CCT001-04-00034

Start date: 2005

End date: 2005

Total amount: 23.325

31 Name of the project: GEOMETRÍA, MECÁNICA Y CONTROL

Project area: National

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero Fernández

Funding institution or bodies:

MINISTERIO DE EDUCACION Y CIENCIA

City: Spain

Name of the programme: Acciones complementarias

Code acc. to the funding institution: MTM2005-24556-E

Start date: 2004

End date: 2005

Total amount: 20.000

32 Name of the project: MUJERES MATEMÁTICAS ESPAÑOLAS EN EL ÁMBITO DE LA INVESTIGACIÓN Y LA DOCENCIA

Project area: National

Role: Scientific coordinator

Institution where project took place: Real Sociedad Matemática Española

Head(s) researcher(s): Edith Padrón Fernández

Number of researchers: 5

Funding institution or bodies:

Instituto de la Mujer

Code acc. to the funding institution: RS/JR Exp. 84/03

Start date: 2004

End date: 2005

Total amount: 26.275



- 33** **Name of the project:** RED TEMÁTICA DE GEOMETRÍA Y FÍSICA
Project area: National
Role: Researcher
Institution where project took place: Instituto de Matemáticas y Física Fundamental, CSIC
Head(s) researcher(s): Oscar García de Prada
Funding institution or bodies:
Ministerio de Educación y Ciencia
Name of the programme: Acción complementarias
Code acc. to the funding institution: MTM2004-22206-E
Start date: 2004
End date: 2005
Total amount: 6.000
- 34** **Name of the project:** SOCIEDAD, CIENCIA, TECNOLOGÍA Y MATEMÁTICAS 2004
Project area: National
Role: Researcher
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Isabel Marrero Rodríguez
Number of researchers: 6
Funding institution or bodies:
Ministerio de Ciencia y Tecnología
Name of the programme: divulgación
Code acc. to the funding institution: DIF2003-10443-E
Start date: 2004
End date: 2005
Total amount: 23.000
- 35** **Name of the project:** RED TEMÁTICA DE GEOMETRÍA Y FÍSICA
Project area: National
Role: Researcher
Institution where project took place: Instituto de Matemáticas y Física Fundamental, CSIC
Head(s) researcher(s): Oscar García de Prada
Funding institution or bodies:
MINISTERIO DE CIENCIA Y TECNOLOGÍA
Name of the programme: Acciones complementarias
Code acc. to the funding institution: BFM2002-11010-E
Start date: 2003
End date: 2004
Total amount: 15.000
- 36** **Name of the project:** CORCHETES Y MULTICORCHETES DE POISSON Y JACOBI, GRUPOS Y ALGEBROIDES DE LIE Y TEORÍAS DE HOMOLOGÍA Y COHOMOLOGÍA
Project area: National
Role: Researcher
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Number of researchers: 4
Code acc. to the funding institution: BFM2000-0808
Start date: 20/12/2000



End date: 19/12/2003

Total amount: 26.178,16

37 Name of the project: GEOMETRÍA Y DINÁMICA DE VARIEDADES DE JACOBI Y POISSON GENERALIZADAS. FORMULACIÓN GEOMÉTRICA DE SISTEMAS LAGRANGIANOS CON LIGADURAS

Project area: National

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Number of researchers: 5

Funding institution or bodies:

MINISTERIO DE EDUCACION Y CIENCIA

Code acc. to the funding institution: PB97-1487

Start date: 02/10/1998

End date: 01/10/2000

Total amount: 15.025,3

38 Name of the project: GEOMETRÍA Y DINÁMICA DE VARIEDADES DE JACOBI

Project area: ULL

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Number of researchers: 3

Funding institution or bodies:

Universidad de La Laguna

Type of institution: University

Name of the programme: Ayudas de la ULL a la investigación

Start date: 01/04/1997

End date: 01/04/1998

Total amount: 3.000

Participation in R&D&I non-competitive projects, contracts or agreements with administrations or public or private bodies

1 Name of the project: CONVENIO DE COOPERACION ENTRE LA UNIVERSIDAD DE LA LAGUNA Y LA UNIVERSIDAD DEL SUR- MECANICA GEOMÉTRICA Y TEORÍA DE CONTROL

Project area: Non EU International

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head researcher: Hernán Cendra; Juan Carlos Marrero González

Number of researchers: 7

Funding institution or bodies:

Universidad de La Laguna

Type of institution: University

Universidad Nacional del Sur

City: Argentina

Type of project: Cooperation

Start date: 12/07/2010, 5 years



2 **Name of the project:** CONVENIO DE COOPERACION ENTRE LA UNIVERSIDAD DE LA LAGUNA Y LA UNIVERSIDAD DE CUYO- MECANICA GEOMÉTRICA Y TEORÍA DE CONTROL

Project area: Non EU International

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head researcher: Sergio Grillo; Juan Carlos Marrero González

Number of researchers: 7

Funding institution or bodies:

Universidad de La Laguna

Type of institution: University

Universidad de Cuyo

City: Argentina

Type of project: Cooperation

Start date: 04/05/2010, 5 years

Total amount: 0

3 **Name of the project:** UNIDAD ASOCIADA CON EL CSIC GEOMETRÍA DIFERENCIAL Y MECÁNICA GEOMÉTRICA

Project area: National

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head researcher: Juan Carlos Marrero González

Number of researchers: 3

Participating bodies: Consejo Superior de Investigaciones Científicas; Universidad de La Laguna

Funding institution or bodies:

CSIC

Type of project: Cooperation

Start date: 20/12/2007, 6 years

4 **Name of the project:** MATEMATICALIA

Project area: National

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head researcher: Isabel Marrero González

Number of researchers: 6

Funding institution or bodies:

Real Sociedad Española de Matemáticas

Type of project: Coordination

Start date: 2005, 2 years

Total amount: 14.120

5 **Name of the project:** MUJERES MATEMÁTICAS ESPAÑOLAS: SITUACIÓN EN EL ÁMBITO DE LA INVESTIGACIÓN Y LA DOCENCIA

Project area: National

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head researcher: Edith Padrón Fernández

Number of researchers: 2

Funding institution or bodies:

REAL SOCIEDAD MATEMATICA ESPAÑOLA

Start date: 01/01/2004, 2 years

Total amount: 5.775

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** David Iglesias; Juan Carlos Marrero; David Martín De Diego; Edith Padrón. DISCRETE DYNAMICS IN IMPLICIT FORM. DISCRETE CONTINUOUS DYNAMICAL SYSTEMS –SERIE A. 33 - 3, pp. 1117 - 1135. 2013.
Type of production: Article **Format:** Journal
- 2** Juan Carlos Marrero; Edith Padrón; Miguel Rodríguez Olmos. REDUCTION OF A LIKE-SYMPLECTIC LIE ALGEBROID WITH MOMENTUM MAP AND ITS APPLICATION TO FIBERWISE LINEAR POISSON STRUCTURES. J PHYS A: MATH THEOR.45, pp. 165201. 2012.
Type of production: Article **Format:** Journal
- 3** Ignazio Lacirasella; Juan Carlos Marrero; Edith Padrón. REDUCTION OF SYMPLECTIC R-BUNDLES. J. PHYS. A: MATH. AND THEOR.45 - 32, pp. 325202. 2012.
Type of production: Article **Format:** Journal
- 4** Antonio de Nicola; Juan Carlos Marrero; Edith Padrón. REDUCTION OF POISSON-NIJENHUIS LIE ALGEBROIDS TO SYMPLECTIC-NIJENHUIS LIE ALGEBROIDS WITH A NONDEGENERATE NIJENHUIS TENSOR. J PHYS A: MATH THEOR.44, pp. 425206 - 425241. 2011.
Type of production: Article **Format:** Journal
- 5** Juan Carlos Marrero; David Martínez; Edith Padrón. UNIVERSAL MODELS VIA EMBEDDING AND REDUCTION FOR LOCALLY CONFORMAL SYMPLECTIC STRUCTURES. ANN. GLOBAL ANAL. GEOM.40, pp. 311 - 337. 2011.
Type of production: Article **Format:** Journal
- 6** Paula Balseiro; David Iglesias; Juan Carlos Marrero; David Martín de Diego; Edith Padrón. A UNIFIED FRAMEWORK FOR MECHANICS. HAMILTON-JACOBI EQUATION AND APPLICATIONS. NONLINEARITY. 23 - 8, pp. 1887 - 1918. 2010.
Type of production: Article **Format:** Journal
Relevant results: El artículo fue considerado por la revista Nonlinearity como featured article" esto es, artículo de alto interés para los contenidos del IOP (véase, <http://iopscience.iop.org/0951-7715/23/8/006>). Está incluido en Nonlinearity Highlights 2010 <http://cms.iopscience.iop.org/alfresco/d/d/workspace/SpacesStore/52c4a20f-aed5-11e0-8951-3d8f4fa53716/NON%20Highlights%202010.pdf>
- 7** Edith Padrón. EMMY NOETHER. EILA EDITORES, 2010. ISBN 978-84-937524-6-0
Type of production: Book **Format:** Book
- 8** Janusz Grabowski; David Iglesias; Juan Carlos Marrero; Edith Padrón; Pawel Urbanski. JACOBI STRUCTURES ON AFFINE BUNDLES. ACTA MATH. SINICA. 23, pp. 769 - 788. 2007.
Type of production: Article **Format:** Journal



- 9** David Iglesias; Juan Carlos Marrero; David Martín de Diego; Eduardo Martínez; Edith Padrón. REDUCTION OF SYMPLECTIC LIE ALGEBROIDS BY A LIE SUBALGEBROID AND A SYMMETRY LIE GROUP. SYMMETRY INTEGRABILITY AND GEOMETRY-METHODS AND APPLICATIONS. 4, pp. 49 - 77. 2007.
Type of production: Article **Format:** Journal
- 10** David Iglesias; Juan Carlos Marrero; Francisco Martín; Edith Padrón; Diana Sosa. XV INTERNATIONAL WORKSHOP ON GEOMETRY AND PHYSICS. PUBLICACIONES DE LA RSME. 11, 2007. ISBN 978-84-935193-1-2
Type of production: Book **Format:** Book
- 11** David Iglesias; Juan Carlos Marrero; Edith Padrón; Diana Sosa. LAGRANGIAN SUBMANIFOLDS AND DYNAMICS ON LIE AFFGEBROIDS. REPORTS IN MATH. PHYSICS. 57 - 3, pp. 385 - 436. 2006.
Type of production: Article **Format:** Journal
- 12** Janusz Grabowski; David Iglesias; Juan Carlos Marrero; Edith Padrón; Pawel Urbanski. POISSON-JACOBI REDUCTION OF HOMOGENEOUS TENSORS. J. PHYS. A: MATH. AND GEN.37, pp. 5383 - 5399. 2004.
Type of production: Article **Format:** Journal
- 13** Manuel de León; Belén López; Juan Carlos Marrero; Edith Padrón. ON THE COMPUTATION OF LICHNEROWICZ-JACOBI COHOMOLOGY. J. GEOM. PHYS.44, pp. 507 - 522. 2003.
Type of production: Article **Format:** Journal
- 14** Raúl Ibáñez; Manuel de León; Belén López; Juan Carlos Marrero; Edith Padrón. DUALITY AND MODULAR CLASS OF A NAMBU-POISSON STRUCTURE. J. PHYS. A: MATH. AND GEN.34 - 17, pp. 3623 - 3650. 2001.
Type of production: Article **Format:** Journal
- 15** Raúl Ibáñez; Manuel de León; Belén López; Juan Carlos Marrero; Edith Padrón. DUALITY AND MODULAR CLASS OF A NAMBU-POISSON STRUCTURES. J. PHYS. A: MATH. GEN.34, pp. 3623 - 3650. 2001.
Type of production: Article **Format:** Journal
- 16** Raúl Ibáñez; Belén López; Juan Carlos Marrero; Edith Padrón. MATCHED PAIRS OF LEIBNIZ ALGEBROIDS, NAMBU-JACOBI STRUCTURES AND MODULAR CLASS. C.R. ACAD. SCI. PARIS, SERIE I. 333, pp. 861 - 866. 2001.
Type of production: Article **Format:** Journal
- 17** Manuel de León; Juan Carlos Marrero; Edith Padrón. ON THE GEOMETRIC PREQUANTIZATION OF BRACKETS. REV. ACAD. CIEN. SERIE A. MAT.95 - 1, pp. 65 - 83. 2001.
Type of production: Article **Format:** Journal
- 18** Manuel de León; Juan Carlos Marrero; Edith Padrón. ON THE GEOMETRIC PREQUANTIZATION OF BRACKETS. RACSAM. 95 - 1, pp. 65 - 83. 2001.
Type of production: Article **Format:** Journal
- 19** Juan Margalef Roig; Enrique Outerelo Domínguez; Edith Padrón Fernández. TOPOLOGÍA GENERAL. SANZ Y TORRES, S.L., 2000. ISBN 84-88667-54-X
Type of production: Book **Format:** Book
- 20** Juan Carlos Marrero; Juan Monterde; Edith Padrón. JACOBI-NIJENHUIS MANIFOLDS AND COMPATIBLE JACOBI STRUCTURE. C. R. ACAD. SCI. PARIS SER I MATH. 329 - 9, pp. 797 - 802. 1999.
Type of production: Article **Format:** Journal



- 21** Raúl Ibáñez; Manuel de León; Juan Carlos Marrero; Edith Padrón. LEIBNIZ ALGEBROID ASSOCIATED WITH A NAMBU-POISSON STRUCTURE. J. PHYS. A: MATH. GEN.32, pp. 8129 - 8144. 1999.
Type of production: Article **Format:** Journal
- 22** Manuel de León; Juan Carlos Marrero; Edith Padrón. DUALITY AND MODULAR CLASS OF A NAMBU-POISSON STRUCTURES. MEMORIAS DE LA REAL ACADEMIA DE CIENCIAS EXACTAS, FÍSICAS Y NATURALES DE MADRID. 32, pp. 131 - 150. 1998.
Type of production: Article **Format:** Journal
- 23** Raúl Ibáñez; Manuel de León; Juan Carlos Marrero; Edith Padrón. NAMBU-JACOBI AND GENERALIZED JACOBI MANIFOLDS. J. PHYS. A: MATH. GEN.31, pp. 1267 - 1286. 1998.
Type of production: Article **Format:** Journal
- 24** Juan Carlos Marrero; Edith Padrón. NEW EXAMPLES OF COMPACT COSYMPLECTIC SOLVMANIFOLDS. ARCH. MATH.34, pp. 337 - 345. 1998.
Type of production: Article **Format:** Journal
- 25** Juan Carlos Marrero; Edith Padrón. COMPACT GENERALIZED HOPF AND COSYMPLECTIC SOLVMANIFOLDS AND THE HEISENBERG GROUP $H(1,N)$. ISRAEL J. OF MATH.101, pp. 189 - 204. 1997.
Type of production: Article **Format:** Journal
- 26** Juan Margalef Roig; Enrique Outerelo Domínguez; Edith Padrón Fernández. CONNECTIONS ON INFINITE DIMENSIONAL MANIFOLDS WITH CORNERS. REND. SEM. UNIV. PADOVA. 98, pp. 21 - 55. 1997.
Type of production: Article **Format:** Journal
- 27** Manuel de León; Juan Carlos Marrero; Edith Padrón. H-CHEVALLEY-EILENBERG COHOMOLOGY OF A JACOBI MANIFOLD AND JACOBI-CHERN CLASS. C. R. ACAD. SCI. PARIS, SERIE I. 325, pp. 405 - 410. 1997.
Type of production: Article **Format:** Journal
- 28** Manuel de León; Juan Carlos Marrero; Edith Padrón. LICHNEROWICZ-JACOBI COHOMOLOGY. J. PHYS. A: MATH. GEN.30, pp. 6029 - 6055. 1997.
Type of production: Article **Format:** Journal
- 29** Manuel de León; Juan Carlos Marrero; Edith Padrón. LICHNEROWICZ-JACOBI COHOMOLOGY OF JACOBI MANIFOLDS. C.R. ACAD. SCI. PARIS, SERIE I. 324, pp. 71 - 76. 1997.
Type of production: Article **Format:** Journal
- 30** Manuel de León; Juan Carlos Marrero; Edith Padrón. ON THE GEOMETRY QUANTIZATION OF JACOBI MANIFOLDS. J. MATH. PHYS.38, pp. 6185 - 6213. 1997.
Type of production: Article **Format:** Journal
- 31** Juan Margalef; Enrique Outerelo; Edith Padrón. ON INFINITE DIMENSIONAL MANIFOLDS WITH CORNERS. 25 AÑOS DE MATEMÁTICAS EN LA UNIVERSIDAD DE LA LAGUNA. SECRETARIADO DE PUBLICACIONES DE LA UNIVERSIDAD DE LA LAGUNA. pp. 375 - 384. 1996.
Type of production: Chapters of books **Format:** Book
- 32** Juan Margalef; Enrique Outerelo; Edith Padrón. PRINCIPAL BUNDLES ON INFINITE DIMENSIONAL MANIFOLDS WITH CORNERS. ACTA MATH. HUNGAR.72 - 1-2, pp. 105 - 119. 1996.
Type of production: Article **Format:** Journal



- 33** Sonia Armas Gómez; Juan Margalef Roig; Enrique Outerelo Domínguez; Edith Padrón Fernández. TRANSVERSALITY ON MANIFOLDS WITH CORNERS. SUPPLEMENTO AI RENDICONTI DEL CIRCOLO MATEMATICO DI PALERMO. 32, pp. 21 - 30. 1993.
Type of production: Article **Format:** Journal
- 34** Edith Padrón; Enrique Outerelo; Juan Margalef; Sonia Armas. UN TEOREMA SOBRE INMERSIONES QUE CONSERVAN EL BORDE. ACTAS XV JORNADAS LUSO-ESPANHOLAS MATEMÁTICA, UNIV, EVORA. III, pp. 149 - 154. 1991.
Type of production: Article
- 35** Edith Padrón; Enrique Outerelo Domínguez; Juan Margalef Roig. ON SUBMERSIONS PRESERVING THE BOUNDARY AND QUOTIENT MANIFOLDS. pp. 110 - 128. WORLD SCIENTIFIC, 1990.
Type of production: Article
- 36** Edith Padrón; Enrique Outerelo; Juan Margalef; Sonia Armas. TEOREMA FUNDAMENTAL PARA VARIEDADES COCIENTES CON BORDE. ACTAS XIV JORNADAS HISPANO-LUSAS DE MATEMÁTICAS, SECRETARIADO DE PUBLICACIONES DE LA UNIVERSIDAD DE LA LAGUNA. II, pp. 649 - 654.
Type of production: Article

Work presented in conferences at the national or international level

- 1** **Title:** REDUCTION OF SYMPLECTIC PRINCIPAL R-BUNDLES
Name of the conference: Geometry Day/ Dia de Geometria
City: Coimbra, Portugal
Date: 23/05/2013
Organising institution: Centro de Matematica da Universidade de Coimbra
- 2** **Title:** AN EXTENSION OF THE MARS DEN-WEINSTEIN REDUCTION PROCESS TO THE SYMPLECTIC LIE ALGEBROID SETTING
Name of the conference: 9th AIMS CONFERENCE, Special Session: Geometric Mechanics, Classical
Type of participation: Invited speaker
City: ORLANDO, United States of America
Date: 07/2012
- 3** **Title:** HAMILTON-JACOBI EQUATION AND NON-HOLONOMIC DYNAMICS WHY USE ALGEBROID THEORY TO DESCRIBE THE H-J EQUATION?
Name of the conference: FOCUS PROGRAM ON GEOMETRY, MECHANICS AND DYNAMICS AND THE LEGACY OF JERRY MARS DEN
Type of participation: Invited speaker
Date: 07/2012
Organising institution: Fields Institute for Research in Mathematical Sciences
City: Toronto, Canada
- 4** **Title:** THE CONTACT COVER OF THE SPHERICAL BUNDLE OF A FIBERWISE LINEAR POISSON MANIFOLD
Name of the conference: GEOMETRY AND PHYSICS DAY
Type of event: Workshop **Field of the conference:** Internacional
Type of participation: Invited speaker
City: Coimbra, Portugal
Date: 01/2012
End date: 01/2012



Organising institution: Universidad de Coimbra
Edith Padrón.

- 5** **Title:** STANDARD SYMPLECTIC AV-BUNDLES AND REDUCTION
Name of the conference: GEOMETRY OF CONSTRAINTS AND CONTROL-NEW DEVELOPMENTS
Type of event: Miniworkshop
Type of participation: Invited speaker
City: Varsovia, Poland
Date: 12/2011
End date: 12/2011
Organising institution: Instituto de Matemáticas de la Academia de Ciencias de Polonia
Edith Padrón.
- 6** **Title:** UNIVERSAL MODELS FOR LOCALLY CONFORMAL SYMPLECTIC STRUCTURES
Name of the conference: GEOMETRY OF CONSTRAINTS AND CONTROL-NEW DEVELOPMENTS
Type of event: MiniWorkshop **Field of the conference:** Internacional
Type of participation: Invited speaker
City: Varsovia, Poland
Date: 11/2010
End date: 11/2010
Organising institution: Instituto de Matemáticas de la Academia de Ciencias de Polonia
Edith Padrón.
- 7** **Title:** POISSON-NIJENHUIS ALGEBROIDS AND REDUCTION
Name of the conference: THEMATIC DAY ON GEOMETRIC STRUCTURES IN MECHANICS
Type of event: Workshop **Field of the conference:** Internacional
Type of participation: Invited speaker
City: Zaragoza, Spain
Date: 02/2010
End date: 02/2010
Organising institution: Universidad de Zaragoza
Edith Padrón.
- 8** **Title:** UNIFIED FRAMEWORK FOR MECHANICS IN SKEW-SYMMETRIC ALGEBROIDS WITH 1-COCYCLEHAMILTON-JACOBI EQUATION AND APPLICATIONS
Name of the conference: GEOMETRY OF CONSTRAINS AND CONTROL
Type of event: MiniWorkshop **Field of the conference:** Internacional
Type of participation: Invited speaker
City: Varsovia, Poland
Date: 10/2009
End date: 10/2009
Organising institution: Instituto de Matemáticas de la Academia de Ciencias de Polonia
Edith Padrón.
- 9** **Title:** HAMILTON-JACOBI THEORY FOR ALMOST LIE AFFGEBROIDS
Name of the conference: XI ENCUENTRO DE INVIERNO DE GEOMETRÍA, MECÁNICA Y TEORÍA DE CONTROL
Type of event: Conference **Field of the conference:** National
Type of participation: Invited speaker
City: Zaragoza, Spain
Date: 01/2009



End date: 01/2009

Organising institution: Universidad de Zaragoza
Edith Padrón.

10 Title: HAMILTON-JACOBI THEORY AND LIE AFFGEBROIDS

Name of the conference: CONSTRAINS AND CONTROL

Type of event: Miniworkshop

Field of the conference: Internacional

Type of participation: Invited speaker

City: Varsovia, Poland

Date: 11/2008

End date: 11/2008

Organising institution: Instituto de Matemáticas de la Academia de Ciencias de Polonia
Edith Padrón.

11 Title: REDUCCIÓN GEOMÉTRICA EN MECÁNICA

Name of the conference: ENCONTRO NOVOS MÉTODOS XEOMÉTRICOS EN MECÁNICA E TEORÍA DE CAMPOS.

Type of event: Seminar

Field of the conference: National

Type of participation: Invited speaker

City: Vigo, Spain

Date: 10/2007

End date: 10/2007

Organising institution: Universidad de La Coruña
Edith Padrón.

12 Title: LIE BIALGEBROIDS AND REDUCCTION

Name of the conference: WORKSHOP ON MECHANICS AND LIE ALGEBROIDS

Type of event: Workshop

Field of the conference: Internacional

Type of participation: Invited speaker

City: Lisboa, Portugal

Date: 09/2007

End date: 09/2007

Organising institution: Instituto Superior Técnico de Lisboa
Type of institution: University
Edith Padrón.

13 Title: REDUCTION OF LIE BIALGEBROIDS

Name of the conference: PRIMER CONGRESO HISPANO FRANCÉS DE MATEMATICAS

Type of event: Conference

Field of the conference: European Union

Type of participation: Invited speaker

City: Zaragoza, Spain

Date: 07/2007

End date: 07/2007

Organising institution: Universidad de Zaragoza
Edith Padrón.

14 Title: REDUCTION OF SYMPLECTIC LIE ALGEBROIDS BY A LIE SUBALGEBROID AND A SYMMETRY LIE GROUP

Name of the conference: NONHOLONOMIC SYSTEMS AND CONTROL

Type of event: Miniworkshop

Field of the conference: Internacional

Type of participation: Invited speaker



City: Varsovia, Poland

Date: 11/2006

End date: 11/2006

Organising institution: Instituto de Matemáticas de la Academia de Ciencias de Polonia
Edith Padrón.

15 Title: LAGRANGIAN SUBMANIFOLDS AND DISCRETE DYNAMICS ON LIE GROUPOIDS

Name of the conference: ICM2006

Type of event: Conference

Field of the conference: Internacional

Type of participation: Poster

City: Madrid, Spain

Date: 08/2006

End date: 08/2006

Organising institution: IMU

David Iglesias; Juan Carlos Marrero; David Martín de Diego; Edith Padron.

16 Title: LIE ALGEBROIDS ON VECTORS AND AFFINE BUNDLES

Name of the conference: MAT.ES2005 (SESION ALGEBRA, GEOMETRÍA Y FÍSICA")

Type of event: Conference

Field of the conference: Internacional

Type of participation: Invited speaker

City: Valencia, Spain

Date: 02/2005

End date: 02/2005

Organising institution: Universitat de València

Type of institution: University

Edith Padrón.

17 Title: COMPATIBILITY BETWEEN AFFINE JACOBI AND LIE AFFGEBROID STRUCTURES ON AN AFFINE BUNDLE

Name of the conference: XIII FALL WORKSHOP ON GEOMETRY AND PHYSICS

Type of event: Conference

Field of the conference: Internacional

Type of participation: Speaker

City: Murcia, Spain

Date: 09/2004

End date: 09/2004

Organising institution: Universidad de Murcia

David Iglesias; Juan Carlos Marrero; Diana Sosa; Edith Padron. "COMPATIBILITY BETWEEN AFFINE JACOBI AND LIE AFFGEBROID STRUCTURES ON AN AFFINE BUNDLE".

18 Title: NAMBU-POISSON STRUCTURES AND COMPATIBLE PAIRS OF LEIBNIZ ALGEBROIDS

Name of the conference: XII FALL WORKSHOP ON GEOMETRY AND PHYSICS

Type of event: Conference

Field of the conference: Internacional

Type of participation: Speaker

City: Coimbra, Portugal

Date: 09/2003

End date: 09/2003

Organising institution: Universidad de Coimbra

Type: Article

Diana Sosa; Edith Padron. "NAMBU-POISSON STRUCTURES AND COMPATIBLE PAIRS OF LEIBNIZ ALGEBROIDS". En: *PUBL. R. SOC. MAT. ESP.*, 7, pp. 229 - 234. 2004.



- 19** **Title:** TRIANGULAR GENERALIZED LIE BIALGEBROIDS: HOMOLOGY AND COHOMOLOGY THEORIES
Name of the conference: WORKSHOP ON LIE ALGEBROIDS AND RELATED TOPICS IN DIFFERENTIAL GEOMETRIC
Type of event: Conference **Field of the conference:** Internacional
Type of participation: Speaker
City: Varsovia, Poland
Date: 12/06/2000
End date: 18/06/2000
Organising institution: Instituto de Matemáticas de la Academia de Ciencias de Polonia
Type: Article
David Iglesias; Juan Carlos Marrero; Belén López; Edith Padrón. "TRIANGULAR GENERALIZED LIE BIALGEBROIDS: HOMOLOGY AND COHOMOLOGY THEORIES". En: *BANACH CENTER PUB.* 54, pp. 111 - 133. 2001.
- 20** **Title:** JACOBI-NIJENHUIS MANIFOLDS
Name of the conference: VIII ENCUESTRO DE OTOÑO SOBRE GEOMETRÍA Y FÍSICA
Type of event: Conference **Field of the conference:** Internacional
City: Medina del Campo, Spain
Date: 23/09/1999
End date: 25/09/1999
Organising institution: Universidad de Valladolid **Type of institution:** University
Type: Article
Juan Carlos Marrero; Juan Monterde; Edith Padron. "JACOBI-NIJENHUIS MANIFOLDS". En: *PUBL. RSME.* 2, pp. 195 - 207. 2001.
- 21** **Title:** ON THE GEOMETRIC PREQUANTIZATION OF BRACKETS
Name of the conference: VI ENCUESTRO DE OTOÑO SOBRE GEOMETRÍA Y FÍSICA
Type of event: Conference **Field of the conference:** Internacional
Type of participation: Speaker
City: Salamanca, Spain
Date: 21/09/1998
End date: 23/09/1998
Organising institution: Universidad de Salamanca
Manuel de León; Juan Carlos Marrero; Edith Padron.
- 22** **Title:** SOME GENERALIZATIONS OF POISSON AND JACOBI STRUCTURES
Name of the conference: 1ST INTERNATIONAL MEETING ON GEOMETRY AND TOPOLOGY
Type of event: Conference **Field of the conference:** Internacional
Type of participation: Speaker
City: Braga, Portugal
Date: 09/1997
End date: 09/1997
Organising institution: Universidad de Braga
Type: Article
Raúl Ibáñez; Manuel de León; Juan Carlos Marrero; David Martín de Diego; Edith Padron. "SOME GENERALIZATIONS OF POISSON AND JACOBI STRUCTURES". En: *PUB. CENTRO DE MATEMÁTICA UNIV. DO MINHO.* pp. 119 - 130. 1998.
- 23** **Title:** A GENERALIZATION FOR JACOBI MANIFOLDS OF THE LICHNEROWICZ-POISSON COHOMOLOGY
Name of the conference: V FALL WORKSHOP DIFFERENTIAL GEOMETRY AND ITS APPLICATIONS
Type of event: Conference **Field of the conference:** Internacional



Type of participation: Speaker

City: Jaca, Spain

Date: 09/1996

End date: 09/1996

Organising institution: Universidad de Zaragoza

Type: Article

Manuel de León; Juan Carlos Marrero; Edith Padron. "A GENERALIZATION FOR JACOBI MANIFOLDS OF THE LICHNEROWICZ-POISSON COHOMOLOGY". En: *MEMORIAS DE LA REAL ACADEMIA DE CIENCIAS EXACTAS, FÍSICAS Y NATURALES DE MADRID*. 32, pp. 131 - 150. 1998.

24 Title: OPENESS AND DENSITY THEOREMS OF TRANSVERSALITY IN MANIFOLDS WITH CORNERS

Name of the conference: DIFFERENTIAL GEOMETRY AND ITS APPLICATIONS

Type of event: Conference

Field of the conference: Internacional

Type of participation: Speaker

City: Opava, Czech Republic

Date: 03/08/1992

End date: 12/08/1992

Organising institution: Silesian University

Type: Article

Sonia Armas Gómez; Juan Margalef Roig; Enrique Outerelo Domínguez; Edith Padrón Fernández. "OPENESS AND DENSITY THEOREMS OF TRANSVERSALITY IN MANIFOLDS WITH CORNERS". En: *DIFFERENTIAL GEOMETRY AND ITS APPLICATIONS, PROC. CONF. OPAVA*. 1, pp. 3 - 12. Math. Publ., 1993.

25 Title: TRANSVERSALITY ON MANIFOLDS WITH CORNERS

Name of the conference: WINTER SCHOOL GEOMETRY AND PHYSICS

Type of event: Conference

Field of the conference: Internacional

Type of participation: Speaker

City: Smi, Czech Republic

Date: 01/1992

End date: 01/1991

Organising institution: Universidad de Praga

Type: Article

Sonia Armas Gómez; Juan Margalef Roig; Enrique Outerelo Domínguez; Edith Padrón Fernández. "TRANSVERSALITY ON MANIFOLDS WITH CORNERS". En: *SUPPLEMENTO AI RENDICONTI DEL CIRCOLO MATEMATICO DI PALERMO*. 32, pp. 21 - 30. 1993.

26 Title: EMBEDDING OF A URYSOHN DIFFERENTIABLE MANIFOLD WITH CORNERS IN A REAL BANACH SPACE

Name of the conference: WINTER SCHOOL GEOMETRY AND PHYSICS

Type of event: Conference

Field of the conference: Internacional

Type of participation: Speaker

City: Smi, Czech Republic

Date: 05/01/1991

End date: 12/01/1991

Organising institution: Universidad de Praga

Type: Article

Sonia Armas Gómez; Juan Margalef Roig; Enrique Outerelo Domínguez; Edith Padrón Fernández. "EMBEDDING OF A URYSOHN DIFFERENTIABLE MANIFOLD WITH CORNERS IN A REAL BANACH SPACE". En: *SUPPLEMENTO AI RENDICONTI DEL CIRCOLO MATEMATICO DI PALERMO*. 30, pp. 143 - 152. 1993.



- 27** **Title:** THEOREM ON BOUNDARY-PRESERVING IMMERSIONS
Name of the conference: XV JORNADAS HISPANO-LUSAS DE MATEMÁTICAS
Type of event: Conference **Field of the conference:** European Union
Type of participation: Speaker
City: Evora, Portugal
Date: 03/09/1990
End date: 07/09/1990
Organising institution: Universidad de Evora **Type of institution:** University
Type: Article
Sonia Armas; Juan Margalef; Enrique Outerelo; Edith Padrón. "THEOREM ON BOUNDARY-PRESERVING IMMERSIONS". En: *ACTAS XV JORNADAS LUSO-ESPANHOLAS MATEMÁTICA*. III, pp. 149 - 154. Universidad de Evora, 1991.
- 28** **Title:** FUNDAMENTAL THEOREM FOR QUOTIENT-MANIFOLDS WITH BOUNDARY
Name of the conference: XIV JORNADAS HISPANO-LUSAS DE MATEMÁTICAS
Type of event: Conference **Field of the conference:** National
Type of participation: Speaker
City: Puerto de la Cruz, Canary Islands, Spain
Date: 05/09/1989
End date: 09/09/1989
Organising institution: Universidad de La Laguna
Type: Article
Sonia Armas; Juan Margalef; Enrique Outerelo; Edith Padrón. "FUNDAMENTAL THEOREM FOR QUOTIENT-MANIFOLDS WITH BOUNDARY". En: *ACTAS XIV JORNADAS HISPANO-LUSAS DE MATEMÁTICAS*. II, pp. 649 - 654. SECRETARIADO DE PUBLICACIONES DE LA UNIVERSIDAD DE LA LAGUNA, 1990.
- 29** **Title:** ON SUBMERSIONS PRESERVING THE BOUNDARY AND QUOTIENT MANIFOLDS
Name of the conference: INTERNATIONAL CONFERENCE ON DIFFERENTIAL GEOMETRY AND ITS APPLICATIONS
Type of event: Conference **Field of the conference:** Internacional
Type of participation: Speaker
City: BRNO, Czech Republic
Date: 27/08/1989
Organising institution: Universidad de Brno
City: Brno, Czech Republic
Type: Article
Juan Margalef; Enrique Outerelo; Edith Padrón Fernández. "ON SUBMERSIONS PRESERVING THE BOUNDARY AND QUOTIENT MANIFOLDS". En: *WORLD SCIENTIFIC*. pp. 119 - 128. WORLD SCIENTIFIC, 1990.
- 30** **Title:** MODEL ADDITIVE CATEGORIES
Name of the conference: FOURTH CONFERENCE ON TOPOLOGY
Type of event: Conference **Field of the conference:** Internacional
Type of participation: Speaker
City: Sorrento,
Date: 1988
Organising institution: Universidad de Napoles
Sergio Rodríguez; edith Padrón. "MODEL ADDITIVE CATEGORIES". En: *REND. CIRC MAT. PALERMO SUPPL.*. 24, pp. 465 - 474. 1990.



- 31** **Title:** A CLASSIFICATION OF ALMOST CONTACT HOMOGENEOUS MANIFOLDS
Name of the conference: XII PORTUGUESE-SPANISH CONFERENCE ON MATHEMATICS
Type of event: Conference **Field of the conference:** European Union
Type of participation: Speaker
City: Braga, Portugal
Date: 1987
Organising institution: Universidad do Minho
Type: Article
Domingo Chinaea; José Carmelo González Dávila; Edith Padrón. "A CLASSIFICATION OF ALMOST CONTACT HOMOGENEOUS MANIFOLDS". En: *Univ. Minho*. 1987.

Other publishing activities

- 1** **Title or object:** Historias de un Poliedro
Type of event: Conferences given
City: Córdoba, Spain
Date: 01/2009
Organising institution: CEP Luisa Revuelta
- 2** **Title or object:** Mujeres y Matemáticas 13 Retratos
Type of event: Conferences given
City: Córdoba,
Date: 01/2009
Organising institution: Conferencia en CEP Luisa Revuelta
Edith Padrón.
- 3** **Title or object:** De cómo la geometría entrelaza ciencia y arte: Historia de un poliedro
Name of the event: Un Paseo por las Matemáticas
Type of event: Conferences given
City: Bilbao,
Date: 14/05/2003
Organising institution: Universidad del País Vasco
Type: Chapters of books
Edith Padrón. "De cómo la geometría entrelaza ciencia y arte: Historia de un poliedro". pp. 173 - 193. Publicaciones del Dpto. de Matemáticas de la Universidad del País Vasco, 2003.



Experience in R&D&I management and participation in scientific committees

Scientific advisory committees, scientific societies

Committee title: Jurado del 6 Certamen Universitario ARQUIMIDES 2007 de introducción a la Investigación Científica

Institution which it depends on: MINISTERIO DE EDUCACION Y CIENCIA

City: Alcala de Henares, Spain

Start date: 2007

Experience organising R&D&I activities

- 1 Title:** VI INTERNATIONAL SUMMER SCHOOL ON GEOMETRY MECHANICS AND CONTROL
Type of activity: Escuela de formación **Area of the activity:** Non EU International
Convening institution: Red Temática Geometría, Mecánica y Control
City: Madrid,
Start date: 22/06/2012
End date: 26/06/2012
- 2 Title:** V INTERNATIONAL SUMMER SCHOOL ON GEOMETRY, MECHANICS AND CONTROL
Type of activity: ESCUELA DE FORMACIÓN **Area of the activity:** INTERNACIONAL
Convening institution: Red Geometría Mecánica y Control
City: La Cristalera, Madrid, Community of Madrid, Spain
Start date: 07/2011
End date: 07/2011
- 3 Title:** IBERIAMERICAN MEETING ON GEOMETRY, MECHANICS, AND CONTROL
Type of activity: CONGRESO **Area of the activity:** INTERNACIONAL
Convening institution: Instituto Balseiro
City: Bariloche, Argentina
Start date: 01/2011
End date: 01/2011
- 4 Title:** 15TH INTERNATIONAL WORKSHOP ON DIFFERENTIAL GEOMETRIC METHODS IN THEORETICAL MECHANICS
Type of activity: CONGRESO **Area of the activity:** Non EU International
Convening institution: Universidad de La Laguna
City: Santa Úrsula, Canary Islands, Spain
Start date: 20/08/2000
End date: 27/08/2000
- 5 Title:** XIV JORNADAS HISPANO-LUSAS DE MATEMÁTICAS
Type of activity: CONGRESO **Area of the activity:** INTERNACIONAL
Convening institution: Universidad de La Laguna
City: Puerto de La Cruz, Spain
Start date: 05/06/1989
End date: 09/06/1989



- 6** **Title:** JORNADAS I-MATH: REDES TEMATICAS ESPAÑOLAS EN EL ÁMBITO DE LAS MATEMÁTICAS
Type of activity: JORNADAS **Area of the activity:** National
Convening institution: I-MATH Proyecto Consolider
City: Castro-Urdiales, Cantabria, Spain
Start date: 09/2011
- 7** **Title:** V INTERNATIONAL YOUNG RESEARCHERS WORKSHOP ON GEOMETRY, MECHANICS, AND CONTROL
Type of activity: CONGRESO **Area of the activity:** INTERNACIONAL
Convening institution: Red Geometría, Mecánica y Control
City: La Laguna, Spain
Start date: 12/2010
- 8** **Title:** WORKSHOP ON GEOMETRIC AND TOPOLOGICAL METHODS IN CONTROL AND ROBOTIC
Type of activity: CONGRESO **Area of the activity:** INTERNACIONAL
Convening institution: Instituto de Ciencias Matemáticas
City: La Cristalera, Madrid, Community of Madrid, Spain
Start date: 10/2010
- 9** **Title:** IV INTERNATIONAL SUMMER SCHOOL ON GEOMETRY, MECHANICS AND CONTROL
Type of activity: ESCUELA DE FORMACIÓN **Area of the activity:** INTERNACIONAL
Convening institution: Red Geometría, Mecánica y Control
City: Santiago de Compostela, Galicia, Spain
Start date: 07/2010
- 10** **Title:** III INTERNATIONAL SUMMER SCHOOL ON GEOMETRY, MECHANICS AND CONTROL
Type of activity: ESCUELA DE FORMACIÓN **Area of the activity:** INTERNACIONAL
Convening institution: Red Geometría, Mecánica y Control
City: LAmetlla del Mar, Catalonia, Spain
Start date: 06/2009
- 11** **Title:** ENCUENTRO IBEROAMERICANO SOBRE GEOMETRÍA DIFERENCIAL Y SUS APLICACIONES (CIMAC)
Type of activity: CONGRESO **Area of the activity:** INTERNACIONAL
Convening institution: CIMAC **Type of institution:** Foundation
City: La Laguna, Canary Islands, Spain
Start date: 06/2008
- 12** **Title:** I ENCUENTRO IBEROAMERICANO DE GEOMETRÍA, MECÁNICA Y CONTROL
Type of activity: CONGRESO **Area of the activity:** INTERNACIONAL
Convening institution: Red Geometría, Mecánica y Control
City: Santiago de Compostela, Galicia, Spain
Start date: 06/2008
- 13** **Title:** II INTERNATIONAL SUMMER SCHOOL ON GEOMETRY, MECHANICS AND CONTROL
Type of activity: ESCUELA DE FORMACIÓN **Area of the activity:** INTERNACIONAL
Convening institution: Red Geometría, Mecánica y Control
City: Santa Cruz de La Palma, Canary Islands, Spain
Start date: 06/2008



- 14** **Title:** JORNADAS DE MECÁNICA GEOMÉTRICA
Type of activity: JORNADAS **Area of the activity:** National
Convening institution: Universidad de La Laguna **Type of institution:** University
City: La Laguna, Canary Islands, Spain
Start date: 04/2008
- 15** **Title:** I INTERNATIONAL SUMMER SCHOOL ON GEOMETRY, MECHANICS AND CONTROL
Type of activity: ESCUELA DE FORMACIÓN **Area of the activity:** INTERNACIONAL
Convening institution: Red Geometría , Mecánica y Control
City: Castro-Urdiales, Cantabria, Spain
Start date: 06/2007
- 16** **Title:** XV INTERNATIONAL WORKSHOP ON GEOMETRY AND PHYSICS
Type of activity: CONGRESO Satélite de ICM2006 **Area of the activity:** INTERNACIONAL
Convening institution: Universidad de La Laguna
City: Puerto de la Cruz, Canary Islands, Spain
Start date: 09/2006
- 17** **Title:** SEMINARIO DE ESPECIALIZACIÓN EN GEOMETRÍA Y TOPOLOGÍA
Type of activity: SEMINARIO DE ESPECIALIZACIÓN **Area of the activity:** Local
Convening institution: Universidad de La Laguna
City: La Laguna, Canary Islands, Spain
Start date: 2005
- 18** **Title:** JORNADAS DE GEOMETRÍA Y MECÁNICA
Type of activity: JORNADAS CIENTIFICAS **Area of the activity:** National
Convening institution: Universidad de La Laguna
City: La Laguna, Canary Islands, Spain
Start date: 10/2004
- 19** **Title:** SPECIAL SESSION ON JACOBI MANIFOLDS
Type of activity: MINISIMPOSIUM **Area of the activity:** INTERNACIONAL
Convening institution: Universidad de Trento
City: LEVICO TERME, TRENTO, Italy
Start date: 09/2002

Experience in assessment and review of R&D&I projects and articles

- 1** **Responsibility held:** Evaluadora de Proyectos del Plan Nacional
Organising institution: ANEP
- 2** **Responsibility held:** Referee de GLASNIK MATEMATICKI
Organising institution: GLASNIK MATEMATICKI
Type of activity: Review of articles in scientific or technological journals
Area: Internacional



- 3** **Responsibility held:** Referee de J. Phys. A: Math and Theor.
Organising institution: J. Phys. A: Math and Theor.
Type of activity: Review of articles in scientific or technological journals
Area: Internacional
- 4** **Responsibility held:** Referee de Journal Geometric Mechanics
Organising institution: Journal Geometric Mechanics
Type of activity: Review of articles in scientific or technological journals
Area: Internacional
- 5** **Responsibility held:** Referee de Mediterranean Journal of Mathematics
Organising institution: Mediterranean Journal of Mathematics
Type of activity: Review of articles in scientific or technological journals
Area: Internacional
- 6** **Responsibility held:** Referee de RUMA (Revista de la Unión Matemática Argentina)
Organising institution: Unión Matemática Argentina
- 7** **Responsibility held:** Revisor de Mathematical Reviews
Organising institution: AMS
- 8** **Responsibility held:** Revisor de Zentralblatt fur Mathematik
Organising institution: Zentralblatt fur Mathematik

Other achievements

Stays in public or private R&D&I centres

- 1** **institution:** IMPA
City: Rio de Janeiro, Brazil
Start date: 06/2010, 1 month
End date: 06/2010
Aims of the stay: Guest
Provable tasks: Colaboración con Paula Balseiro
- 2** **institution:** IMPA **Type of institution:** University Research Institute
City: Rio de Janeiro, Brazil
Start date: 07/2009, 14 days
End date: 08/2009
Aims of the stay: Guest
Provable tasks: Colaboración de Paula Balseiro
- 3** **institution:** Consejo Superior de Investigaciones Científicas
Faculty, institute or centre: Instituto de Matemáticas y Física Fundamental
City: Madrid, Community of Madrid, Spain
Start date: 06/2007, 2 months
End date: 07/2007



Aims of the stay: Guest

Provable tasks: Colaboración con Manuel de León y David Martín de Diego

- 4** **institution:** Universidad de Coimbra
Faculty, institute or centre: Departamento de Matemáticas
City: Coimbra, Portugal
Start date: 01/2012, 14 days
Aims of the stay: Guest
Provable tasks: Colaboración con Joanna Nunes y Antonio de Nicola
- 5** **institution:** Instituto de Matemáticas de la Academia de Ciencias de Polonia
City: Varsovia, Poland
Start date: 12/2011, 7 days
Aims of the stay: Guest
Provable tasks: Colaboración con Janusz Grabowski
- 6** **institution:** Instituto de Matemáticas de la Academia de Ciencias de Polonia
City: Varsovia, Poland
Start date: 11/2010, 7 days
Aims of the stay: Guest
Provable tasks: Colaboración con Janusz Grabowski
- 7** **institution:** Instituto de Matemáticas de la Academia de Ciencias de Polonia
City: Varsovia, Poland
Start date: 10/2009, 7 days
Aims of the stay: Guest
Provable tasks: Colaboración con Janusz Grabowski
- 8** **institution:** Instituto de Matemáticas de la Academia de Ciencias de Polonia
City: Varsovia, Poland
Start date: 11/2008, 7 days
Aims of the stay: Guest
Provable tasks: Colaboración con Janusz Grabowski
- 9** **institution:** Instituto de Matemáticas de la Academia de Ciencias de Polonia
City: Varsovia, Poland
Start date: 11/2007, 7 days
Aims of the stay: Guest
Provable tasks: Colaboración con Janusz Grabowski

Membership of scientific societies and professional associations

- 1** **Name:** Presidenta de la Comisión Mujeres y Matemáticas de la RSME
Institution: Real Sociedad Matemática Española
Start date: 2005, 2009
- 2** **Name:** Miembro de la RSME
Institution: Real Sociedad Matemática Española



Membership of thematic networks

Name: Red Geometría, Mecánica y Control

Identification of the network: GMCnet

Tasks carried out: Como miembro hasta 2011 y como coordinadora hasta la actualidad

Start date: 2005

Number of recognised research periods

1 Number of recognised periods: 1

Conferring institution: Comisión Nacional Evaluadora de la Actividad Investigadora

Date of recognition: 2012

2 Number of recognised periods: 1

Area: National

Conferring institution: Comisión Nacional Evaluadora de la Actividad Investigadora

Date of recognition: 2004

3 Number of recognised periods: 1

Area: National

Conferring institution: Comisión Nacional Evaluadora de la Actividad Investigadora

Date of recognition: 1998