



Marianna Garfi'

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**Marianna Garfi'**

Surname(s): **Garfi'**
 Name: **Marianna**
 NIE: **Y0953771K**
 Date of birth: **15/02/1981**
 Gender: **Female**
 Land line phone: **(0034) 934016412**
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Current professional situation

Employing entity: Universitat Politècnica de Catalunya - BarcelonaTech
Department: Department of civil and environmental engineering (DECA), School of Civil Engineering
Professional category: Postdoc researcher
Start date: 01/05/2009
Type of contract: Temporary employment contract **Dedication regime:** Full time
Primary (UNESCO code): 330800 - Environmental technology and Engineering
Secondary (UNESCO code): 330809 - Sanitary engineering; 330899 - Other
Tertiary (UNESCO code): 330899 - Other
Performed tasks: Environmental engineering, nature-based technologies, water, wastewater treatment, anaerobic digestion, energy from wastewater, water reuse, sludge treatment, extensive wastewater treatment systems, constructed wetlands, life cycle assessment
Identify key words: Environmental research

Previous positions and activities

	Employing entity	Professional category	Start date
1	Intermediate Technology Development Group (UK-Peru)	Researcher and project manager	01/11/2009
2	Universidad de la Plata (Argentina)	Postdoc Researcher	15/01/2009
3	Università di Bologna (Italia)	Ph.D Student	01/01/2006
4	Environmental Division, Ferrara	Project Manager	01/05/2005

1 **Employing entity:** Intermediate Technology Development Group (UK-Peru)
Professional category: Researcher and project manager
Start-End date: 01/11/2009 - 01/03/2010 **Duration:** 4 months

2 **Employing entity:** Universidad de la Plata (Argentina)
Professional category: Postdoc Researcher
Start-End date: 15/01/2009 - 15/04/2009 **Duration:** 3 months



- 3** **Employing entity:** Universita´di Bologna (Italia)
Professional category: Ph.D Student
Start-End date: 01/01/2006 - 31/01/2009 **Duration:** 3 years

- 4** **Employing entity:** Environmental Division, Ferrara
Professional category: Project Manager
Start-End date: 01/05/2005 - 31/12/2006 **Duration:** 1 year - 8 months



Education

University education

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

University degree: Higher degree

Name of qualification: Environmental Engineering

Degree awarding entity: Universita' di Bologna
(Italia)

Type of entity: University

Date of qualification: 15/02/2005

Doctorates

Doctorate programme: Ph.D Civil Engineering

Degree awarding entity: Universita' di Bologna
(Italia)

Type of entity: University

Date of degree: 28/04/2009

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

Training title: Habilitación a la profesión de ingeniero

Awarding entity: Universita' di Bologna

End date: 2006

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

- Title of course/seminar:** Aplicaciones del análisis del ciclo de vida. Declaraciones ambientales de producto, ecodiseño y huella de carbono/hídrica
Organising entity: Lavola **Type of entity:** Business
Duration in hours: 20 hours
Start-End date: 2015 - 2015
- Title of course/seminar:** Análisis del ciclo de vida y modelización mediante el nuevo Simapro 8
Organising entity: Lavola **Type of entity:** Business
Duration in hours: 20 hours
Start-End date: 2013 - 2013
- Title of course/seminar:** Metodologías de aprendizaje activo. Programa de formación. Práctica e Innovación de la Docencia Universitaria (PIDU'12)
Organising entity: Universitat Politècnica de Catalunya **Type of entity:** University
Duration in hours: 30 hours

**Start-End date:** 2012 - 2012**4 Title of course/seminar:** Introducción al Análisis del Ciclo de Vida. Una herramienta clave para la ecología industrial**Organising entity:** Universitat Autònoma de Barcelona **Type of entity:** University**Duration in hours:** 30 hours**Start-End date:** 2011 - 2011

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	C1	C2	C2	C2	C1
Catalan	C2	C1	B2	B2	B1
Portuguese	C2	C1	C1	C1	C1
Spanish	C2	C2	C2	C2	C2
Italian	C2	C2	C2	C2	C2

Teaching experience

General teaching experience

- 1 Name of the course:** Environmental engineering (Ingeniería ambiental)
University degree: Ingeniero de Caminos, Canales y Puertos
Start date: 2015 **End date:** 2016
End date: 2016 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 6
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos
- 2 Name of the course:** Life Cycle Assessment of products and processes
University degree: Graduado o Graduada en Ingeniería Agroalimentaria
Start date: 2015 **End date:** 2016
End date: 2016 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 6
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos
- 3 Name of the course:** Water supply (Aguas de abastecimiento)
University degree: Graduado o Graduada en Ingeniería de Obras Públicas
Start date: 2015 **End date:** 2016
End date: 2016 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 4,5
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos



- 4** **Name of the course:** Environmental engineering (Ingeniería ambiental)
University degree: Ingeniero de Caminos, Canales y Puertos
Start date: 2014 **End date:** 2015
End date: 2015 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 6
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos
- 5** **Name of the course:** Water supply (Aguas de abastecimiento)
University degree: Graduado o Graduada en Ingeniería de Obras Públicas
Start date: 2014 **End date:** 2015
End date: 2015 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 4,5
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos
- 6** **Name of the course:** Water quality (Calidad del agua)
University degree: Master en ingeniería ambiental
Start date: 2013 **End date:** 2014
End date: 2014 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 4,5
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos
- 7** **Name of the course:** Water supply (Aguas de abastecimiento)
University degree: Graduado o Graduada en Ingeniería de Obras Públicas
Start date: 2013 **End date:** 2014
End date: 2014 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 4,5
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos
- 8** **Name of the course:** Water quality (Calidad del agua)
University degree: Master en ingeniería ambiental
Start date: 2012 **End date:** 2013
End date: 2013 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 4,5
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos
- 9** **Name of the course:** Environmental chemistry and biology (Química y biología ambiental)
University degree: Master en ingeniería ambiental
Start date: 2011 **End date:** 2012
End date: 2012 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 4,5
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos
- 10** **Name of the course:** Servicios básicos y desarrollo local en contextos de cooperación
University degree: Master en cooperación y desarrollo humano
Start date: 2011 **End date:** 2012



End date: 2012
Hours/ECTS credits: 4,5
Entity: Universitat Politècnica de Catalunya
Type of hours/ ECTS credits: Credits
Type of entity: University

11 Name of the course: Water Quality Management (Gestión de calidad del agua)
University degree: Ingeniero de Caminos, Canales y Puertos
Start date: 2011
End date: 2012
Hours/ECTS credits: 4,5
Entity: Universitat Politècnica de Catalunya
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos
End date: 2012
Type of hours/ ECTS credits: Credits
Type of entity: University

12 Name of the course: Water supply (Agua de abastecimiento)
University degree: Graduado o Graduada en Ingeniería de Obras Públicas
Start date: 2011
End date: 2012
Hours/ECTS credits: 4,5
Entity: Universitat Politècnica de Catalunya
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos
End date: 2012
Type of hours/ ECTS credits: Credits
Type of entity: University

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Optimization of algae-based wastewater treatment systems towards enhanced water reuse and recovery of micro-algae for biogas and bioplastics production
Entity: Universitat Politècnica de Catalunya
Student: Marie Curie Fellow
Date of reading: 2019
Type of entity: University
- 2 Project title:** Understanding environmental, economic and social sustainability for recovery of products from waste water
Entity: Delft University
Student: Marie Curie Fellow
Date of reading: 2019
Type of entity: University
- 3 Project title:** Optimization of a microalgae harvesting method based on electro-coagulation
Entity: Universitat Politècnica de Catalunya
Student: Fatine Ezbakhe
Date of reading: 2018
Type of entity: University
- 4 Project title:** Biogas production from algal biomass grown in wastewater treatment plant
Entity: Universitat Politècnica de Catalunya
Student: María Solé Bundo
Date of reading: 2017
Type of entity: University
- 5 Project title:** Análisis del ciclo de vida de un hipotético tratamiento terciario mediante filtros percoladores para la reutilización de aguas residuales
Entity: Universitat Politècnica de Catalunya
Student: Laura Enjuanes
Date of reading: 2015
Type of entity: University



- 6** **Project title:** Comparing conventional and natural wastewater treatment with Life Cycle Assessment methodology
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Student: Anna Maria Cullell Oriols
Date of reading: 2015
- 7** **Project title:** Estudio para la mejora de la instalación de potabilización del agua del barrio 2, de Bhimphedi en Nepal
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Student: Hugo Juanals Bellvehí
Date of reading: 2015
- 8** **Project title:** Life Cycle Assessment of a constructed wetland system for wastewater treatment and reuse in Nagpur, India
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Student: Laura Flores Rosell
Date of reading: 2015
- 9** **Project title:** Life Cycle Assessment of a high rate algal pond system for wastewater treatment and bioenergy production
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Student: Julia Hereza
Date of reading: 2015
- 10** **Project title:** Aceptabilidad social de tecnologías sostenibles para el tratamiento de aguas residuales en áreas urbanas de India. Caso de estudio en Nagpur
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Student: Steven Haba Prieto
Date of reading: 2014
- 11** **Project title:** Análisis multicriterio para la evaluación ambiental, técnica y económica de 4 biodigestores instalados en el Altiplano Boliviano
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Student: Anayensing María Elena López Verduzco
Date of reading: 2014
- 12** **Project title:** Caracterización de la eficiencia de eliminación de un sistema híbrido de humedales construidos
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Student: Andreu Roca
Date of reading: 2014
- 13** **Project title:** Effect of season and primary treatment on the performance of a three - stage hybrid constructed wetland system
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Student: Blanca Marín Esteve
Date of reading: 2014
- 14** **Project title:** Energy and life cycle assessment of a combined system for wastewater treatment
Entity: Universitat Politècnica de Catalunya - Politecnico di Milano **Type of entity:** University
Student: Massimiliano Marciánó
Date of reading: 2014



- 15** **Project title:** Natural systems for wastewater treatment in warm climate regions
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Student: Livia García Gil
Date of reading: 2014
- 16** **Project title:** Projecte constructiu d'un sistema híbrid d'aiguamolls pel tractament d'aigües residuals en el municipi de Vinaixa
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Student: Miquel de Francisco Sans
Date of reading: 2013
- 17** **Project title:** Creació de un Innovation Site on Water and Energy
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Student: Guillermo Perez Boloix
Date of reading: 2012
- 18** **Project title:** Influence of heavy rain episodes on removal efficiency in a three stage hybrid constructed wetland system
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Student: Carlos Donoso Galán
Date of reading: 2012
- 19** **Project title:** Influence of hydraulic loading rate on treatment efficiency and water quality for reuse in a three stage hybrid constructed wetland system
Entity: Universitat Politècnica de Catalunya **Type of entity:** University
Student: Natalia Amigó Chaparro
Date of reading: 2012
- 20** **Project title:** Soluzioni decentralizzate per il trattamento delle acque reflue
Entity: Università di Bologna **Type of entity:** University
Student: Luca Antonozzi
Date of reading: 2009
- 21** **Project title:** Analisi di tecnologie appropriate per il riciclaggio a piccola scala di rifiuti solidi urbani nei paesi in via di sviluppo
Entity: Università di Bologna **Type of entity:** University
Student: Claudia Cortesi
Date of reading: 2008
- 22** **Project title:** La raccolta dell'acqua piovana. Monitoraggio della qualità delle acque nel semi-arido brasiliano.
Entity: Università di Bologna **Type of entity:** University
Student: Pierluigi Aielli
Date of reading: 2008
- 23** **Project title:** Tecniche di risparmio idrico a livello locale e mondiale. Approfondimento sulle buone pratiche agricole per un uso sostenibile dell'acqua
Entity: Università di Bologna **Type of entity:** University
Student: Valentina Albertazzi
Date of reading: 2008



- 24** **Project title:** Análisis e mejoramiento de las aguas destinadas al consumo humano en la región de Magdalena Medio, Colombia. Aplicación de tecnologías apropiadas en un territorio económicamente desfavorecido.
Entity: Universidad de Bologna **Type of entity:** University
Student: Antonio Fruci
Date of reading: 2007
- 25** **Project title:** El agua, un recurso primario en el centro del debate mundial. Estudio de un proyecto de abastecimiento hídrico en el Semi-Árido brasileño. Análisis de calidad de las aguas
Entity: Universidad de Bologna
Student: Andrea Conte
Date of reading: 2007
- 26** **Project title:** Valorización del agua pluvial en el semi-árido brasileño
Entity: Universidad de Bologna **Type of entity:** University
Student: Annalisa Sandri
Date of reading: 2007
- 27** **Project title:** Reciclaje de residuos de construcción y demolición en la Franja de Gaza
Entity: Universidad de Bologna
Student: Jalil Alabad
Date of reading: 2006
- 28** **Project title:** Uso Sostenible y metodologías de incremento de la recurso hídrico
Entity: Universidad de Bologna
Student: Paolo Carretto
Date of reading: 2006

Student tutorials

Name of the programme: Students' Tutor

Entity: Universidad de Bologna

Type of entity: University

Teaching experience in courses and seminars for university teacher training

- 1** **Type of event:** Workshop
Name of the event: Appropriate technologies for human development
Organising entity: Universitat Politècnica de Catalunya **Type of entity:** University
Hours of teaching: 4
Teaching date: 2014
- 2** **Type of event:** Seminar
Name of the event: Water sanitation in rural areas: constructed wetlands technologies
Organising entity: Université Cadi Ayyad **Type of entity:** University
Hours of teaching: 4
Teaching date: 2013
- 3** **Type of event:** Seminar
Name of the event: Biodigestor, tecnología limpia para mitigar el cambio climático (Biodigestor, clean technology for climate change mitigation)



Organising entity: EARTH University
Hours of teaching: 3
Teaching date: 2010

Type of entity: University

Educational or pedagogical publications, books, articles, etc.

- 1** Laia Ferrer Martí; Marianna Garfí; Ivet Ferrer. Cooperation and Human Development Projects as Bachelor, Master and PhD Thesis: Evaluating an Internship Program. Procedia - Social and Behavioral Sciences. 196, pp. 63 - 68. Elsevier,
Name of the materials: Cooperation and Human Development Projects as Bachelor, Master and PhD Thesis: Evaluating an Internship Program
Date of drafting: 2015
Format: Article(s)
Corresponding author: No
- 2** Marianna Garfí; Marco Iob. Il Sapere dell'acqua. Le tecnologie appropriate e i saperi tradizionali come modalità concrete per garantire il diritto all'acqua nel Semiarido brasiliano. pp. 1 - 27. CeVI,
Name of the materials: Il Sapere dell'acqua
Date of drafting: 2013
Format: Book
Corresponding author: No

Participation in innovative teaching projects

- 1** **Project title:** Creación de material docente digital para las asignaturas del área de la Ingeniería Ambiental (Teaching material for Environmental Engineering students)
Type of participation: Team member
Funding entity: Universitat Politècnica de Catalunya (UPC) **Type of entity:** University
Start-End date: 2015 - 2016 **Duration:** 1 year
- 2** **Project title:** Creación de material docente para las asignaturas del área de la Ingeniería Ambiental (Teaching material for Environmental Engineering students)
Type of participation: Team member
Funding entity: Universitat Politècnica de Catalunya (UPC) **Type of entity:** University
Start-End date: 2014 - 2015 **Duration:** 1 year

Participation in conferences with talks focused on teacher training

- 1** **Name of the event:** International Congress on Education, Innovation and Learning Technologies
Type of event: Conference
City of event: Barcelona, Catalonia, Spain
Date of presentation: 2014
Organising entity: Universitat de Barcelona **Type of entity:** University
Evaluating an internship program to conduct cooperation and development projects as Bachelor, Master and PhD Thesis.



- 2 Name of the event:** International Congress on University, Teaching and Innovation
Type of event: Conference
City of event: Tarragona, Catalonia, Spain
Date of presentation: 2014
Organising entity: Asociación Catalana de Universidades Públicas
 Cooperation and human development projects as bachelor, master and PhD thesis: evaluating an internship program.

Scientific and technological experience

Research and development groups/teams

- 1 Name of the group:** Group of Environmental Engineering and Microbiology (GEMMA)
Standardised code: 2014SGR116
Affiliation entity: Universitat Politècnica de Catalunya **Type of entity:** University
Start date: 2011 **Duration:** 8 years
- 2 Name of the group:** Research Group on Cooperation and Human Development (GRECDH)
Affiliation entity: Universitat Politècnica de Catalunya **Type of entity:** University
Start date: 2009 **Duration:** 5 years

Scientific or technological activities

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

- 1 Name of the project:** Innovative Eco-Technologies for Resource Recovery from Wastewater (INCOVER)
Entity where project took place: Universitat Politècnica de Catalunya **Type of entity:** University
Name principal investigator (PI, Co-PI....): Joan García
Nº of researchers: 4
Funding entity or bodies: EU FP7 **Type of entity:** European Commission
Start-End date: 2016 - 2019
Total amount: 810.000
- 2 Name of the project:** Sustainable Product, Energy and Resource Recovery from Wastewater (SuPER-W)
Entity where project took place: Universitat Politècnica de Catalunya **Type of entity:** University
Name principal investigator (PI, Co-PI....): Ivet Ferrer; Marianna Garfi
Nº of researchers: 4
Funding entity or bodies: H2020-MSCA-ITN-2015 (Marie Skłodowska-Curie - European Joint Doctorates)
Start-End date: 2015 - 2019
Total amount: 495,74

- 3** **Name of the project:** Nature-based technologies for innovation in water management (NatureWat – Action Group)
Entity where project took place: Universitat Politècnica de Catalunya **Type of entity:** University
Name principal investigator (PI, Co-PI....): Joan García; Marianna Garfi
Nº of researchers: 2
Funding entity or bodies: European Innovation Partnership on Water
Start-End date: 2015 - 2018
- 4** **Name of the project:** Produccion de biogas a partir del tratamiento de aguas residuales empleando consorcios de microalgas y bacterias en fotobioreactores cerrados (FOTOBIOGAS)
Entity where project took place: Universitat Politècnica de Catalunya **Type of entity:** University
Name principal investigator (PI, Co-PI....): Ivet Ferrer
Nº of researchers: 7
Funding entity or bodies: Ministerio de Economía y Competitividad **Type of entity:** Ministerio
Start-End date: 2015 - 2017
Total amount: 118,58
- 5** **Name of the project:** 10th International Society of Environmental Biotechnology Conference (ISEB 2016)
Entity where project took place: Universitat Politècnica de Catalunya **Type of entity:** University
Name principal investigator (PI, Co-PI....): Joan García
Nº of researchers: 5
Funding entity or bodies: Ministerio de Economía y Competitividad
Start-End date: 2015 - 2016
Total amount: 14.300
- 6** **Name of the project:** ECOtechnologies for WAter Treatment and recovery of resources (ECOWAT)
Entity where project took place: Universitat Politècnica de Catalunya **Type of entity:** University
Name principal investigator (PI, Co-PI....): Joan García
Nº of researchers: 7
Funding entity or bodies: Ministerio de Economía y Competitividad **Type of entity:** State agency
Start-End date: 2014 - 2016
Total amount: 24.000
- 7** **Name of the project:** Natural wastewater treatment technologies for rural and urban areas of India
Entity where project took place: Universitat Politècnica de Catalunya **Type of entity:** University
Name principal investigator (PI, Co-PI....): Marianna Garfi
Nº of researchers: 6
Funding entity or bodies: Centro de cooperación y desarrollo (CCD) **Type of entity:** University Centres and Structures and Associated Bodies



Start-End date: 2013 - 2016

Total amount: 14.000

8 Name of the project: Production and anaerobic digestion of algal biomass from wastewater (DIPROBIO)

Entity where project took place: Universitat Politècnica de Catalunya **Type of entity:** University

Name principal investigator (PI, Co-PI....): Joan García

Nº of researchers: 7

Funding entity or bodies:

Ministerio de Economía y Competitividad **Type of entity:** Ministerio

Start-End date: 2013 - 2016

Total amount: 120.000

9 Name of the project: Safeguarding Water resources in INdia with Green and Sustainable technologies (SWINGS)

Entity where project took place: Universitat Politècnica de Catalunya **Type of entity:** University

Name principal investigator (PI, Co-PI....): Joan García Serrano; Cristina Avila; Marianna Garfí

Nº of researchers: 4

Funding entity or bodies:

EU FP7 **Type of entity:** European Commission

Start-End date: 2012 - 2016

Total amount: 264,23

10 Name of the project: Autonomous Reed Bed Installations (ARBI)

Entity where project took place: Universitat Politècnica de Catalunya **Type of entity:** University

Name principal investigator (PI, Co-PI....): Joan García

Nº of researchers: 4

Funding entity or bodies:

EU FP7 **Type of entity:** European Commission

Start-End date: 2013 - 2015

Total amount: 508,99

11 Name of the project: Natural Water Systems and Treatment Technologies to cope with Water Shortages in Urbanised Areas in India (NaWaTech)

Entity where project took place: Universitat Politècnica de Catalunya **Type of entity:** University

Name principal investigator (PI, Co-PI....): Joan Garcí Serrano; Marianna Garfí

Nº of researchers: 3

Funding entity or bodies:

EU FP7 **Type of entity:** European Commission

Start-End date: 2012 - 2015

Total amount: 181,19

12 Name of the project: Biotechnology for Africa's Water Supply (WATERBIOTECH) (Coordinated project with 20 research groups-subprojects)

Entity where project took place: Universitat Politècnica de Catalunya **Type of entity:** University

Name principal investigator (PI, Co-PI....): Joan Gacia Serrano; Marianna Garfí



Nº of researchers: 4

Funding entity or bodies:

EU FP7

Type of entity: European Commission

Start-End date: 2011 - 2014

Total amount: 97.460

13 Name of the project: Water.cat. Catalan R+D Network for Water Technologies

Entity where project took place: Universitat Politècnica de Catalunya

Type of entity: University

Name principal investigator (PI, Co-PI....): Joan García; Marianna Garfi

Nº of researchers: 6

Funding entity or bodies:

ACC1Ó, Generalitat de Catalunya

Type of entity: State agency

Start-End date: 2010 - 2012

Total amount: 11.000

14 Name of the project: Applied research program for the promotion of sustainable use of biomass in rural area of Andes

Entity where project took place: Universitat Politècnica de Catalunya

Type of entity: University

Name principal investigator (PI, Co-PI....): Ivet Ferrer

Nº of researchers: 9

Funding entity or bodies:

Centre de Cooperació per al Desenvolupament (CCD 2009)

Start-End date: 2009 - 2011

Total amount: 30

15 Name of the project: Biodigesters: energy and sanitation for rural families

Entity where project took place: Universitat Politècnica de Catalunya

Type of entity: University

Name principal investigator (PI, Co-PI....): Ivet Ferrer

Nº of researchers: 6

Funding entity or bodies:

Fundación Caja Navarra

Type of entity: Foundation

Start-End date: 2010 - 2010

Total amount: 4.230

16 Name of the project: Applied research program for the promotion of rural energy development in Developing Countries - PRIADER

Entity where project took place: Universitat Politècnica de Catalunya

Type of entity: University

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

Nº of researchers: 6

Funding entity or bodies:

Agencia Catalana de Cooperación al Desarrollo (ACCD-U2008)

Type of entity: State agency

Start-End date: 2008 - 2009

Total amount: 207



- 17 Name of the project:** Rainwater harvesting in Semi arid region of Brazil
Entity where project took place: Universita' di Bologna
N° of researchers: 4
Funding entity or bodies:
 Articulacao Do Semi Arido Brasileiro (Asa) **Type of entity:** State agency
Start-End date: 2006 - 2009
- 18 Name of the project:** Waste management in Saharawi refugees camps
Entity where project took place: Università di Bologna
N° of researchers: 5
Funding entity or bodies:
 Regione Emilia Romagna **Type of entity:** State agency
Start-End date: 2006 - 2009
- 19 Name of the project:** The Construction and Demolition Waste In Gaza Strip
Entity where project took place: Universita' di Bologna
Name principal investigator (PI, Co-PI....): Alessandra Bonoli
N° of researchers: 4
Funding entity or bodies:
 United Nation Industrial Development Programme **Type of entity:** United Nation
Start-End date: 2006 - 2007

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

- 1 Name of the project:** Proyecto de prueba nuevo modelo de gestión: 4 contenedores: p/c-v-b-seco
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Antonio Aguado
N° of researchers: 6
Funding entity or bodies:
 URBASER, S.A.
City funding entity: Spain
Start date: 2015 **Duration:** 1 year
Total amount: 20
- 2 Name of the project:** Proyecto de investigación de biotecnología para el tratamiento de aguas residuales urbanas mediante fitodepuración en la provincia de Badajoz, España
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Joan García
N° of researchers: 6
Funding entity or bodies:
 Quarq Enterprise S.A
Start date: 2014 **Duration:** 3 years
Total amount: 50.000
- 3 Name of the project:** Packaged solutions for water and wastewater treatment
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Joan García Serrano
N° of researchers: 3

**Funding entity or bodies:**

ALTEMA, RC2 Ingeniería y Diseño S.L.

Start date: 2013**Duration:** 2 months**Total amount:** 2.000**4 Name of the project:** Wastewater management in Buenos Aires**Degree of contribution:** Researcher**Nº of researchers:** 4**Funding entity or bodies:**

Universita' di Bologna

Type of entity: University**Start date:** 2009**Duration:** 3 months

Scientific and technological activities

Scientific production

H index: 9**Date of application:** 07/01/2016

Publications, scientific and technical documents

- 1** Marianna Garfí; Jaime Martí Herrero; Anna Garwood; Ivet Ferrer. Household anaerobic digesters for biogas production in Latin America: a review. Renewable & Sustainable Energy Reviews. Accepted, Elsevier, 2016.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 2** Cristina Ávila; Joan García; Marianna Garfí. Influence of hydraulic loading rate, simulated storm events and seasonality on the treatment performance of an experimental three-stage hybrid constructed wetland system. Ecological Engineering. 87, pp. 324 - 332. Elsevier, 2016.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 3** Clara Corbella; Marianna Garfí; Jaume Puigagut. Long-term assessment of best cathode position to maximize microbial fuel cell performance in constructed wetlands. Ecological Engineering. Submitted, Elsevier, 2016.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 4** Marianna Garfí; Jaume Puigagut. Reusing industrial by-products to enhance phosphorus removal in waste stabilization ponds: laboratory approach. Desalination and Water Treatment Journal. 57 - 4, pp. 1857 - 1864. Taylor & Francis, 2016.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 5** Marianna Garfí; Anna Pedescoll; Javier Carretero; Jaume Puigagut; Joan García. Reliability and economic feasibility of online monitoring of constructed wetlands performance. Desalination and Water Treatment. 52, pp. 31 - 33. Taylor & Francis, 2014.
Type of production: Scientific paper **Format:** Journal



Corresponding author: Yes

- 6** Clara Corbella; Marianna Garfí; Jaume Puigagut. Vertical redox profiles in treatment wetlands as function of hydraulic regime and macrophytes presence: Surveying the optimal scenario for microbial fuel cell implementation. *Science of the Total Environment*. 470-471, pp. 754 - 758. Elsevier, 2014.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 7** Anna Pedescoll; Ricardo Sidrach Cardona; Jaume Cambra Sánchez; Javier Carretero; Marianna Garfí; Eloy Bécares. Design configurations affecting flow pattern and solids accumulation in horizontal free water and subsurface flow constructed wetlands. *Water Research*. 47 - 3, pp. 1448 - 1458. Elsevier, 2013.
Type of production: Scientific paper **Format:** Journal
- 8** Irene Pérez; Marianna Garfí; Erasmo Cadena; Ivet Ferrer. Technical, economic and environmental assessment of household biogas digesters for rural communities. *Renewable Energy*. 62, pp. 313 - 318. Elsevier, 2013.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 9** Cristina Ávila; Marianna Garfí; Joan García. Three-stage hybrid constructed wetland system for wastewater treatment and reuse in warm climate regions. *Ecological Engineering*. 61, pp. 43 - 49. Elsevier, 2013.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 10** Marianna Garfí; Anna Pedescoll; Eloy Bécares; María Hijosa Valsero; Ricard Sidrach Cardona; Joan García. Effect of climatic conditions, season and wastewater quality on contaminant removal efficiency of two experimental constructed wetlands in different regions of Spain. *Science of the Total Environment*. 437, pp. 61 - 67. Elsevier, 2012.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 11** Laia Ferrer Martí; Anna Garwood; José Chiroque; Benito Ramirez; Marcelo Oliver; Marianna Garfí; Enrique Velo. Evaluating and comparing three community small-scale wind electrification projects. *Renewable and Sustainable Energy Review*,. 16 - 7, pp. 5379 - 5390. Elsevier, 2012.
Type of production: Scientific paper **Format:** Journal
- 12** Marianna Garfí; Laia Ferrer Martí; Enrique Velo; Ivet Ferrer. Evaluating benefits of low-cost household digesters for rural Andean communities. *Renewable and Sustainable Energy Review*. 16 - 1, pp. 575 - 581. Elsevier, 2012.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 13** Marianna Garfí; Pau Gelman; Jordi Comas; William Carrasco; Ivet Ferrer. Agricultural reuse of the digestate from low-cost tubular digesters in rural Andean communities. *Waste Management*. 31, pp. 2584 - 2589. Elsevier, 2011.
Type of production: Scientific paper **Format:** Journal
- 14** Ivet Ferrer; Marianna Garfí; Enrica Uggetti; Laia Ferrer Martí; Enrique Velo. Biogas production in low-cost household digesters at the Peruvian Andes. *Biomass and Bioenergy*. 35 - 5, pp. 1668 - 1674. Elsevier, 2011.
Type of production: Scientific paper **Format:** Journal
- 15** Marianna Garfí; Laia Ferrer Martí; Irene Perez; Xavier Flotats; Ivet Ferrer. Co-digestion of cow and guinea pig manure in low-cost tubular digesters at high altitude. *Ecological Engineering*. 37, pp. 2066 - 2070. Elsevier, 2011.
Type of production: Scientific paper **Format:** Journal



- 16** Marianna Garfí; Laia Ferrer Martí. Decision-making criteria and indicators for water and sanitation projects in developing countries. *Water Science and Technology*. 64 - 1, pp. 83 - 101. IWA, 2011.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 17** Marianna Garfí; Laia Ferrer Martí; Alessandra Bonoli; Simona Tondelli. Multi Criteria Analysis for improving Strategic Environmental Assessment of water programmes. A case study in semi-arid region of Brazil. *Journal of Environmental Management*. 92, pp. 665 - 675. Elsevier, 2011.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 18** Marianna Garfí; Laia Ferrer Martí; Vidal Villegas; Ivet Ferrer. Psychrophilic anaerobic digestion of guinea pig manure in low cost digesters at high altitude. *Bioresource Technology*. 102 - 10, pp. 6356 - 6359. Elsevier, 2011.
Type of production: Scientific paper **Format:** Journal
- 19** Marianna Garfí; Simona Tondelli; Alessandra Bonoli. Multi Criteria Decision Analysis for Waste Management in Saharawi refugee camps. *Waste Management*. 29, pp. 2729 - 2739. Elsevier, 2009.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 20** Marianna Garfí; Antonio Fruci. Tecnologías apropiadas para la desinfección de el agua. *Cuadernos TpDH*. 6, pp. 69 - 72. ISSN: 1697820X, EISSN: 18858104., 2007.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 21** Cristina Ávila; Catiane Pelissari; Pablo Heleno Sezerino; Joan García; Marianna Garfí. Nature-based solutions for wastewater treatment and reuse in peri-urban areas of India: pilot-scale experiments. *Sustainable Sanitation Practice Journal*. Ecosan, 2016.
Type of production: Popular science article **Format:** Journal
Corresponding author: Yes
- 22** Laia Ferrer Martí; Marianna Garfí; Ivet Ferrer. Cooperation and Human Development Projects as Bachelor, Master and PhD Thesis: Evaluating an Internship Program. *Procedia - Social and Behavioral Sciences*. 196, pp. 63 - 68. Elsevier, 2015.
Type of production: Popular science article **Format:** Journal
Corresponding author: No
- 23** Norbert Weissenbacher; Josiane Nikiema; Marianna Garfí; Alberto Figoli. What do we require from water biotechnologies in Africa?. *Sustainable Sanitation Practice (SSP) journal — Eco San*. 14, pp. 35 - 40. Ecosan, 2013.
Type of production: Popular science article **Format:** Journal
Corresponding author: No
- 24** Gunter Langergraber; Fabio Masi; Marianna Garfí; Joan García. Natural Water Systems and Treatment Technologies to Cope with Water Shortages in Urbanised Areas in India. *IWA Specialist Group on Use of Macrophytes in Water Pollution Control*. IWA on line. Newsletter No. 41. 41, 2012.
Type of production: Popular science article **Format:** Journal
Corresponding author: No
- 25** Marianna Garfí; Joan García Serrano. Hybrid Constructed Wetland (HCW). *Compendium of Natural Water Systems and Treatment Technologies to cope with Water Shortages in Urbanised Areas in India*. pp. 75 - 76. epubli GmbH, 2013.



Type of production: Book chapter
Corresponding author: Yes

Format: Book

- 26** Marianna Garfí; Joan García Serrano. Non-Planted Filters. Compendium of Natural Water Systems and Treatment Technologies to cope with Water Shortages in Urbanised Areas in India. pp. 69 - 70. epubli GmbH, 2013.

Type of production: Book chapter
Corresponding author: Yes

Format: Book

- 27** Marianna Garfí; Joan García Serrano. Wastewater Recharge and Reuse. Compendium of Natural Water Systems and Treatment Technologies to cope with Water Shortages in Urbanised Areas in India. pp. 42 - 43. epubli GmbH, 2013.

Type of production: Book chapter
Corresponding author: Yes

Format: Book

- 28** Marco Iob; Marianna Garfí. Il sapere dell'acqua. Le tecnologie appropriate e i saperi tradizionali come modalità concrete per garantire il diritto all'acqua nel Semiárido brasiliano. pp. 1 - 27. CeVI, 2013.

Type of production: Popular science book

Format: Book

- 29** Marianna Garfí. D4.10: 6 MSc Theses. NaWaTech Consortium. pp. 1 - 18. 2015.

Type of production: Scientific-technical report
Corresponding author: Yes

- 30** Marianna Garfí. D4.11: 6 Ph.D Theses. NaWaTech Consortium. pp. 1 - 9. 2015.

Type of production: Scientific-technical report
Corresponding author: Yes

- 31** Cristina Ávila; Marianna Garfí; Joan García Serrano. Revisión del estado del arte sobre los sistemas de macrófitos flotantes para el tratamiento de aguas residuales y plan de trabajo. pp. 1 - 20. 2015.

Type of production: Scientific-technical report
Corresponding author: Yes

- 32** D2.3 Identification of the highest-potential approach for the NaWaTech system development. pp. 1 - 72. 2013.

Type of production: Scientific-technical report
Corresponding author: Yes

- 33** Marianna Garfí. Packaged solutions for water and wastewater treatment in Naftalan, Azerbaijan. pp. 1 - 5. 2013.

Type of production: Scientific-technical report
Corresponding author: Yes

- 34** Marianna Garfí; Marinela Neculau; Joan García Serrano. Biotechnologies for wastewater treatment: a review. pp. 1 - 46. 2012.

Type of production: Scientific-technical report
Corresponding author: Yes

- 35** Marianna Garfí; Marinela Neculau; Joan García Serrano. Evaluation criteria for wastewater treatment technologies assessment. pp. 1 - 22. 2012.

Type of production: Scientific-technical report
Corresponding author: Yes



- 36** Marianna Garfí; Joan García Serrano. Non-technical requirements for implementation of water treatment technology. pp. 1 - 16. 2012.
Type of production: Scientific-technical report
Corresponding author: Yes

Works submitted to national or international conferences

- 1** **Title of the work:** Life Cycle Assessment of a constructed wetland system for wastewater treatment in Nagpur, India
Name of the conference: International Conference on Innovations in Sustainable Water and Wastewater Treatment Systems (ISWATS)
Type of event: Conference
Corresponding author: Yes
City of event: Pune, India
Date of event: 2016
Organising entity: NEERI
City organizing entity: Nagpur, India
Laura Flores; Anna María Cullell; Marianna Garfí. 2016.
- 2** **Title of the work:** Agricultural reuse of the digestate from micro-algae anaerobic digestion and co-digestion with sewage sludge
Name of the conference: Ramiran 2015, 16th International Conference Rural-Urban Symbiosis
Type of event: Conference
Corresponding author: No
City of event: Hamburg, Germany
Date of event: 2015
Organising entity: Hamburg University of Technology
City organizing entity: Hamburg, Germany
Maria Solé; Mirko Cucina; Josefina Tàpies; Maria Folch; Victor Matamoros; Marianna Garfí; Ivet Ferrer. 2015.
- 3** **Title of the work:** Bioenergy and bioproducts from microalgae grown in wastewater
Name of the conference: 11th International Conference on Renewable Resources & Biorefineries (RRB11)
Type of event: Conference
Corresponding author: No
City of event: York, United Kingdom
Date of event: 2015
Organising entity: RRB
Ivet Ferrer; Raquel Gutiérrez; Maria Solé; Dulce Arias; Enrica Uggetti; Marianna Garfí; Joan García Serrano. 2015.
- 4** **Title of the work:** Biogas potential from algal-based wastewater treatment systems: co-digestion of by-products, thermal pretreatment, energy balance and digestate characteristics
Name of the conference: 14th World Congress on Anaerobic Digestion (AD2015)
Type of event: Conference
Corresponding author: No
City of event: Viña del Mar, Chile
Date of event: 2015
Organising entity: Pontificia Universidad Católica de Valparaíso (Chile)
City organizing entity: Valparaíso, Chile
Maria Solé; Fabiana Passos; Marianna Garfí; Ivet Ferrer. 2015.



- 5** **Title of the work:** Characterization of the digestate from microalgae anaerobic digestion and codigestion with sewage sludge for agricultural use
Name of the conference: III International Symposium on Organic Matter Management and Compost Use in Horticulture
Type of event: Conference
Corresponding author: No
City of event: Murcia, Spain
Date of event: 2015
Organising entity: CEBAS-CSIC
City organizing entity: Murcia, Spain
Maria Solé; Josefina Tàpies; Maria Folch; Victor Matamoros; Marianna Garfí; Ivet Ferrer. 2015.
- 6** **Title of the work:** Codigestión de microalgas y fango primario: producción de energía y reutilización del digestato
Name of the conference: VI Jornada sobre lodos de EDAR
Type of event: Conference
Corresponding author: No
City of event: Barcelona, Spain
Date of event: 2015
Organising entity: Universitat de Barcelona **Type of entity:** University
City organizing entity: Barcelona, Spain
Maria Solé; Josefina Tàpies; Maria Folch; Victor Matamoros; Marianna Garfí; Ivet Ferrer. 2015.
- 7** **Title of the work:** Evaluation of thermal pretreatment and continuous anaerobic digestion of microalgal biomass grown in wastewater treatment systems: energy assessment and life cycle analysis
Name of the conference: 14th World Congress on Anaerobic Digestion (AD2015)
Type of event: Conference
Corresponding author: No
City of event: Viña del Mar, Chile
Date of event: 2015
Organising entity: Pontificia Universidad Católica de Valparaíso (Chile)
City organizing entity: Valparaíso, Chile
Fabiana Passos; Massimiliano Marcianó; Marianna Garfí; Ivet Ferrer. 2015.
- 8** **Title of the work:** Improving the production of biofuels and non-food bioproducts from microalgae grown in wastewater
Name of the conference: The 5th International Conference on Algal Biomass, Biofuels and Bioproducts (ABBB2015)
Type of event: Conference
Corresponding author: No
City of event: San Diego, United States of America
Date of event: 2015
Organising entity: Los Alamos National Laboratory
City organizing entity: Los Alamos, United States of America
Ivet Ferrer; Raquel Gutiérrez; Maria Solé; Dulce Arias; Enrica Uggetti; Marianna Garfí; Joan García Serrano. 2015.
- 9** **Title of the work:** Safeguarding water resources in India with green and sustainable technologies
Name of the conference: 6th European Bioremediation Conference
Type of event: Conference
Corresponding author: No



City of event: Chania, Greece

Date of event: 2015

Organising entity: Technical University of Crete

City organizing entity: Crete, Greece

Cristina Ávila; Juan Antonio Álvarez; Carlos Arias; Martin Rolletschek; Philip Otter; René Kilian; D. Istenic; I. Amersek; Pascal Molle; N Khalil; V. Mishra; S. Lahiri; B.B Jana; Marianna Garfí; Joan García Serrano. 2015.

- 10 Title of the work:** Co-digestion of microalgae and primary sludge as by-products from algal-based wastewater treatment systems

Name of the conference: Biogas Science 2014. International Conference on Anaerobic Digestion

Type of event: Conference

Corresponding author: No

City of event: Viena, Austria

Date of event: 2014

Organising entity: BOKU

City organizing entity: Viena, Austria

Maria Solé Bundo; Fabiana Passos; Marianna Garfí; Ivet Ferrer. 2014.

- 11 Title of the work:** Cooperation and human development projects as bachelor, master and PhD thesis: evaluating an internship program

Name of the conference: VIII International Congress on University, Teaching and Innovation (CIDUI)

Type of event: Conference

Corresponding author: No

City of event: Tarragona, Spain

Date of event: 2014

Organising entity: Associació Catalana d'Universitats Públiques

City organizing entity: Barcelona, Spain

Laia Ferrer Martí; Marianna Garfí; Ivet Ferrer. 2014.

- 12 Title of the work:** Evaluating an internship program to conduct cooperation and development projects as Bachelor, Master and PhD Thesis

Name of the conference: International Congress on Education, Innovation and Learning Technologies (ICEILT)

Type of event: Conference

Corresponding author: No

City of event: Barcelona, Spain

Date of event: 2014

Organising entity: ICEILT

City organizing entity: Barcelona, Spain

Laia Ferrer Martí; Marianna Garfí; Ivet Ferrer. 2014.

- 13 Title of the work:** Using high rate algal ponds to combine wastewater treatment and bioenergy production from harvested microalgal biomass

Name of the conference: Second WATERBIOTECH International Conference. Biotechnology for Africa's sustainable water supply

Corresponding author: Yes

City of event: Marrakech, Morocco

Date of event: 2014

Organising entity: Cadi Ayyad University

City organizing entity: Marrakech, Morocco

Raquel Gutiérrez; Fabiana Passos; Ivet Ferrer; Marianna Garfí; Joan García Serrano.



- 14** **Title of the work:** Technical, economic and environmental assessment of household biogas digesters in developing countries
Name of the conference: 13th World Congress on Anaerobic Digestion (AD2013)
Type of event: Conference
Corresponding author: No
City of event: Santiago de Compostela, Spain
Date of event: 2013
Organising entity: Universidad de Santiago de Compostela
Type of entity: University
City organizing entity: Santiago de Compostela, Spain
Marianna Garfí; Irene Pérez; Erasmo Cadena; Ivet Ferrer. 2013.
- 15** **Title of the work:** Assessing treatment wetlands plant performance by online monitoring: empirical and economic aspects
Name of the conference: First International WATERBIOTECH Conference
Type of event: Conference
Corresponding author: Yes
Date of event: 2012
Organising entity: NRC
City organizing entity: Cairo, Egypt
Marianna Garfí; Anna Pedescoll; Eduardo Alvarez; Jaume Puigagut; Joan García. 2012.
- 16** **Title of the work:** Evaluación técnica, económica y ambiental de los biodigestores implementados en comunidades rurales andinas
Name of the conference: Cuarto encuentro REDBIOLAC
Type of event: Conference
Corresponding author: Yes
Date of event: 2012
Organising entity: ASOFENIX
City organizing entity: Managua, Nicaragua
Irene Perez; Marianna Garfí; Erasmo Cadena; Ivet Ferrer. 2012.
- 17** **Title of the work:** The influence of operational and design parameters on vertical redox profiles in sub-surface flow constructed wetlands: surveying the optimal scenario for microbial fuel cell implementation.
Name of the conference: IWA 2012 - 13th International Conference
Type of event: Conference
Date of event: 2012
Organising entity: IWA
City organizing entity: Perth, Australia
Marianna Garfí; Clara Corbella; Jaume Puigagut. 2012.
- 18** **Title of the work:** Multi-Criteria Analysis For Water Management: A Case Study In Rural Communities Of Brazil.
Name of the conference: 3rd International Congress Smallwat11, Wastewater in small communities.
Type of event: Conference
Corresponding author: Yes
Date of event: 2011
Organising entity: Centro de Las Nuevas Tecnologías del Agua
Type of entity: R&D Centre
City organizing entity: Sevilla, Spain
Marianna Garfí; Laia Ferrer Martí. 2011.



- 19** **Title of the work:** Psychrophilic Anaerobic Digestion Of Livestock's Wastewater At High Altitude
Name of the conference: 3rd International Congress Smallwat11, Wastewater in small communities.
Type of event: Conference
Corresponding author: Yes
Date of event: 2011
Organising entity: Centro de Las Nuevas Tecnologías del Agua **Type of entity:** R&D Centre
City organizing entity: Sevilla, Spain
Marianna Garfí; Laia Ferrer Martí; Enrique Velo; Ivet Ferrer. 2011.
- 20** **Title of the work:** Biogas production in household biodigesters at high altitude: full-scale experiences in the Peruvian Andes
Name of the conference: IWA Congress: Decentralised Wastewater Treatment Solutions in Developing Countries Conference and Exhibition
Type of event: Conference
Date of event: 2010
Organising entity: IWA
City organizing entity: Indonesia
Ivet Ferrer; Enrica Uggetti; Marianna Garfí; Laia Ferrer Martí; Enrique Velo. 2010.
- 21** **Title of the work:** Biogas production in low-cost household digesters at high altitude.
Name of the conference: Micro Perspectives for Decentralized Energy Supply. Internacional Conferences
Type of event: Conference
Date of event: 2010
Organising entity: Technische Universität Berlin
City organizing entity: Berlin, Germany
Marianna Garfí; Laia Ferrer Martí; Enrique Velo; Ivet Ferrer. 2010.
- 22** **Title of the work:** Producción de biogás en biodigestores domésticos de bajo coste en los Andes
Name of the conference: Mesa Española de Tratamiento de Agua (META2010)
Type of event: Conference
Date of event: 2010
Organising entity: Mesa Española de Tratamiento de Aguas (META)
City organizing entity: Spain
Marianna Garfí; Laia Ferrer Martí; Enrique Velo; Ivet Ferrer. 2010.
- 23** **Title of the work:** Waste disposal in Development Countries and emergency situations. The case of Saharawi refugees camps
Name of the conference: International Solid Waste Association (ISWA) World Congress 2009
Type of event: Conference
Date of event: 2009
Organising entity: ISWA
City organizing entity: Lisboa, Portugal
Marianna Garfí; Alessandra Bonoli. 2009.
- 24** **Title of the work:** A Barragem subterrânea como tecnologia apropriada para a captação da água da chuva para a produção no Semiárido Brasileiro
Name of the conference: SIDISA 2008 International Symposium on Sanitary and Environmental Engineering.
Type of event: Conference



Date of event: 2008

Organising entity: Sanitary and Environmental Engineering Association

City organizing entity: Firenze, Italy

Alessandra Bonoli; Marianna Garfí. 2008.

25 Title of the work: Acqua Oro Blu: stato delle risorse idriche e politiche di gestione sostenibile per la tutela, il risparmio e il riciclo nel settore agricolo

Name of the conference: Ecomondo 2008, 12th International Trade Fair of Material & Energy recovery and Sustainable Development

Type of event: Conference

Date of event: 2008

Organising entity: Ecomondo

City organizing entity: Rimini, Italy

Marianna Garfí; Alessandra Bonoli. 2, pp. 84 - 89. 2008.

26 Title of the work: Appropriate Technologies For Water Purification in Developing Countries

Name of the conference: ACR+ and London Remade international conference on Waste and Climate Change

Type of event: Conference

Date of event: 2008

Organising entity: ACR+

City organizing entity: London, United Kingdom

Marianna Garfí; Federica Pantaleoni; Alessandra Bonoli. 2008.

27 Title of the work: Il riciclo dei rifiuti da costruzione e demolizione (C&D): il caso della striscia di Gaza

Name of the conference: SIDISA 2008 International Symposium on Sanitary and Environmental Engineering.

Type of event: Conference

Date of event: 2008

Organising entity: Sanitary and Environmental Engineering Association

City organizing entity: Firenze, Italy

Marianna Garfí; Alessandra Bonoli. 2008.

28 Title of the work: La raccolta dei rifiuti nei Paesi in condizioni disagiate: il caso del campo profughi Sahrawi.

Name of the conference: SIDISA 2008 International Symposium on Sanitary and Environmental Engineering.

Type of event: Conference

Date of event: 2008

Organising entity: Sanitary and Environmental Engineering Association

City organizing entity: Firenze, Italy

Marianna Garfí; Alessandra Bonoli. 2008.

29 Title of the work: Raccolta dell'acqua piovana nel Semi-arido Brasiliano: analisi di qualità delle acque

Name of the conference: SIDISA 2008 International Symposium on Sanitary and Environmental Engineering.

Type of event: Conference

Date of event: 2008

Organising entity: Sanitary and Environmental Engineering Association

City organizing entity: Firenze, Italy

Alessandra Bonoli; Marianna Garfí. 2008.



- 30** **Title of the work:** Tecnologie appropriate per il riciclo dei rifiuti nei Paesi in Via di Sviluppo: il caso del campo profughi Sahrawi
Name of the conference: SIDISA 2008 International Symposium on Sanitary and Environmental Engineering.
Type of event: Conference
Date of event: 2008
Organising entity: Sanitary and Environmental Engineering Association
City organizing entity: Firenze, Italy
Marianna Garfí; Alessandra Bonoli. 2008.
- 31** **Title of the work:** Tecnologie sostenibili e non convenzionali per l'approvvigionamento idrico
Name of the conference: Ecomondo 2008, 12th International Trade Fair of Material & Energy recovery and Sustainable Development
Type of event: Conference
Date of event: 2008
Organising entity: Ecomondo
City organizing entity: Rimini, Italy
Alessandra Bonoli; Marianna Garfí. 2, pp. 54 - 69. 2008.
- 32** **Title of the work:** The recycling of Construction and Demolition Waste: the Quality Standards for the reuse in construction field
Name of the conference: REWAS 2008, Global Simposium on Recycling, Waste Treatment and Clean Technology
Type of event: Conference
Date of event: 2008
Organising entity: TMS
City organizing entity: Cancun, Mexico
Marianna Garfí; Alessandra Bonoli. 2008.
- 33** **Title of the work:** Appropriate Technologies For Wastewater and faecal sludge management in Developing Countries
Name of the conference: Ecomondo 2007, 11th International Trade Fair of Material & Energy recovery and Sustainable Development
Type of event: Conference
Date of event: 2007
Organising entity: Ecomondo
City organizing entity: Rimini, Italy
Marianna Garfí; Alessandra Bonoli. 2, pp. 44 - 49. 2006.
- 34** **Title of the work:** Appropriate Technologies For Water Purification in Developing Countries
Name of the conference: Ecomondo 2006, 10th International Trade Fair of Material & Energy recovery and Sustainable Development
Type of event: Conference
Date of event: 2006
Organising entity: Ecomondo
City organizing entity: Rimini, Italy
Marianna Garfí; Alessandra Bonoli. 2, pp. 41 - 45. 2006.



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

- 1** **Title of the work:** Cooperation in water management between urban, rural and industrial stakeholders: from regional water management perspective to local implementation. A case study of reuse practice in Granollers, Barcelona, Spain
Name of the event: Climate robust water availability management for industry and agriculture. Workshop. AquaConSoil 2015
City of event: Copenhagen, Denmark
Date of event: 2015
Organising entity: AquaConSoil
Enrica Uggetti; Marianna Garfí; Xavier Romero; Joan García Serrano.
- 2** **Title of the work:** Constructed wetlands as nature based solution for restoration and provision of services a case study in Granollers, Barcelona
Name of the event: Ecosystem services: market challenges and opportunities-EIP water conference
City of event: Barcelona, Spain
Date of event: 2014
Organising entity: EIP Water
Joan García Serrano; Marianna Garfí.
- 3** **Title of the work:** Constructed wetlands as a low-cost natural technology for water treatment. Technical aspects and experiences
Name of the event: 1st NaWaTech International Workshop
Corresponding author: Yes
City of event: Barcelona, Spain
Date of event: 2013
Organising entity: Universitat Politècnica de Catalunya
Type of entity: University
City organizing entity: Barcelona, Spain
Cristina Ávila; Marianna Garfí.

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1** **Committee title:** Scientific Committee 10th International Society of Environmental Biotechnology Conference, ISEB2016, Barcelona, Spain
Affiliation entity: ISEB
Type of entity: Associations and Groups
Start-End date: 2015 - 2016
- 2** **Committee title:** Scientific Committee International Conference on Innovations in Sustainable Water and Wastewater Treatment Systems (ISWATS 2015), Nagpur, India
Affiliation entity: NaWaTech
Type of entity: European Project Consortium
Start-End date: 2015 - 2016
- 3** **Committee title:** Advisory Board of the Spanish Water Technology Platform (PTEA) for the European Innovation Partnership (EIP) on Water
Affiliation entity: Spanish Water Technology Platform (PTEA)
Type of entity: Technology Platform



City affiliation entity: Madrid, Spain
Start-End date: 2012 - 2013

- 4** **Committee title:** Comisión para el examen de habilitación a la profesión de ingeniero
Affiliation entity: COLEGIO INGENIEROS CAMINOS, CANALES Y PUERTOS
City affiliation entity: Bologna, Italy
Start-End date: 2007 - 2009

Organization of R&D activities

Title of the activity: 1st NaWaTech International Workshop
Type of activity: Workshop
Convening entity: Universitat Politècnica de Catalunya
City convening entity: Barcelona, Spain
Start date: 2013
Type of entity: University
Duration: 1 day

R&D management

- 1** **Name of the activity:** Sustainable Product, Energy and Resource Recovery from Wastewater (SuPER-W)
Type of management: Management of R&D&I actions and projects
Performed tasks: Project Manager and Training Coordinator
Entity: Universitat Politècnica de Catalunya
Start date: 2016
Type of entity: University
Duration: 4 years
- 2** **Name of the activity:** Nature-based technologies for innovation in water management (NatureWat – Action Group EIP on Water)
Type of management: Management of R&D&I actions and projects
Performed tasks: Project Manager and Communication person
Entity: Universitat Politècnica de Catalunya
Start date: 2015
Type of entity: University
Duration: 3 years
- 3** **Name of the activity:** Natural wastewater treatment technologies for rural and urban areas of India.
Type of management: Management of R&D&I actions and projects
Performed tasks: Principal Investigator
Entity: Universitat Politècnica de Catalunya
Start date: 2013
Type of entity: University
Duration: 3 years
- 4** **Name of the activity:** Natural Water Systems and Treatment Technologies to cope with Water Shortages in Urbanised Areas in India (NaWaTech)
Type of management: Management of R&D&I actions and projects
Performed tasks: Project Manager (Co-IP)
Entity: Universitat Politècnica de Catalunya
Start date: 2012
Type of entity: University
Duration: 3 years - 6 months
- 5** **Name of the activity:** Biotechnology for Africa's Water Supply (WATERBIOTECH)
Type of management: Management of R&D&I actions and projects
Performed tasks: Project Manager (Co-IP)
Entity: Universitat Politècnica de Catalunya
Type of entity: University



Start date: 2011

Duration: 3 years

6 Name of the activity: Water.cat. Catalan R+D Network for Water Technologies

Type of management: Management of R&D&I actions and projects

Performed tasks: Project Manager

Entity: Universitat Politècnica de Catalunya

Type of entity: University

Start date: 2010

Duration: 2 years

7 Name of the activity: Biogas production in rural areas of Peruvian Andes

Type of management: Management of R&D&I actions and projects

Performed tasks: Project Manager (Co-IP)

Entity: ITDG

Start date: 2009

Duration: 1 year - 2 months

National and international forums and committees

1 Name of the forum: European Innovation Partnership (EIP) on Water

Organising entity: European Commission

Start date: 2015

2 Name of the forum: Platform for Environmental Technology (PLANETA)

Organising entity: PLANETA

Start date: 2013

3 Name of the forum: Water supply and sanitation Technology Platform (WssTP)

Organising entity: WssTP

Start date: 2013

4 Name of the forum: Spanish Water Technology Platform (PTEA)

Organising entity: PTEA

Start date: 2012

Other achievements

Stays in public or private R&D centres

1 Entity: Universidad Nacional de La Plata (UNPL)

City of entity: La Plata, Argentina

Start date: 2009

Duration: 3 months

Goals of the stay: Doctorate

Provable tasks: Research activities on wastewater management in Buenos Aires

2 Entity: Intermediate Technology Group – ITDG Practical Action

City of entity: Cajamarca-Lima, Peru

Start date: 2009

Duration: 1 year - 2 months

Goals of the stay: Post-doctoral

Provable tasks: Research activities on wastewater management and biogas production in rural Andes



- 3** **Entity:** Universidade Federal de Lavras (UFLA)
Faculty, institute or centre: : Núcleo PPJ, Núcleo de Pesquisa e Apoio à Agricultura Familiar
City of entity: Lavras, Brazil
Start date: 2007 **Duration:** 7 months
Goals of the stay: Doctorate
Provable tasks: Research activities on water management in semi-arid regions of Brazil

Obtained grants and scholarships

- 1** **Name of the grant:** Subprograma Juan de la Cierva (JDC)
Aims: Post-doctoral
Awarding entity: Ministerio de Economía y Competitividad **Type of entity:** Ministerio
Conferral date: 01/03/2014 **Duration:** 3 years
End date: 28/02/2017
Entity where activity was carried out: Universitat Politècnica de Catalunya
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos
- 2** **Name of the grant:** Scholarship for foreign Postdoc researcher in Spanish centres
Aims: Post-doctoral
Awarding entity: Ministerio de Educación, Política Social y Deporte **Type of entity:** State agency
Conferral date: 01/06/2011 **Duration:** 1 year - 6 months
End date: 30/11/2012
Entity where activity was carried out: Ministerio de Educación, Política Social y Deporte
- 3** **Name of the grant:** Scholarship Marco Polo
Aims: Pre-doctoral
Awarding entity: Università di Bologna **Type of entity:** University
Conferral date: 01/01/2009 **Duration:** 3 months
End date: 30/03/2009
Entity where activity was carried out: Università di Bologna
- 4** **Name of the grant:** Scholarship for PhD students
Aims: Pre-doctoral
Awarding entity: Università di Bologna **Type of entity:** University
Conferral date: 01/01/2006 **Duration:** 3 years
End date: 31/12/2008
Entity where activity was carried out: Università di Bologna

Co-operation networks

- 1** **Name of the network:** Action Group NatureWAT - Nature-based technologies for innovation in water management (AG 228). European Innovation Partnership on Water (EIP-Water)
Identification of the network: <http://www.eip-water.eu/NatureWat>
Start date: 2015



- 2 Name of the network:** Research and Innovation Strategies for Smart Specialisation on Water (RIS3CAT-Aigua)
Identification of the network: http://accio.gencat.cat/cat/empresa-ACC10/premsa/noticies-notes-premsa/2015/150311_ris3cat.jsp
Start date: 2014
- 3 Name of the network:** Working Group "Cooperation beyond Europe". Water supply and sanitation Technology Platform (WssTP)
Identification of the network: <http://wsstp.eu/>
Start date: 2014
- 4 Name of the network:** Catalan network on Water (Connect-EU Water.cat)
Identification of the network: <http://aigua.connecteu.cat/>
Start date: 2011
- 5 Name of the network:** Red de biodigestores de América Latina y Caribe (RedBioLAC)
Identification of the network: www.redbiolac.org
Start date: 2009

Prizes, mentions and distinctions

- 1 Description:** First mention of "III National Quality Award in Research and Doctoral Thesis on International Cooperation for Human Development"
Awarding entity: Universidad Politécnica de Madrid **Type of entity:** University
City awarding entity: Madrid, Spain
- 2 Description:** First prize "Premio Tattarillo, International competition for Graduation Theses and PhD Theses Concerning Suitable technologies for sustainable development in the South of the World",
Awarding entity: Università di Firenze
City awarding entity: Firenze, Italy
- 3 Description:** Second prize "National Sustainable Consumption Award 2006" Best Final Project on critical consumption and sustainable development.
Awarding entity: Fondazione ICU
City awarding entity: Italy

Obtained accreditations/recognitions

- 1 Description:** Acreditación Profesor Agregado (Associate professor)
Accrediting entity: Agència per a la Qualitat del Sistema Universitari de Catalunya, AQU Catalunya **Type of entity:** Agència per a la Qualitat del Sistema Universitari de Catalunya, AQU Catalunya
City accrediting entity: Barcelona, Spain
Date of recognition: 2013
- 2 Description:** Acreditación Profesor Lector (Lecturer)
Accrediting entity: Agència per a la Qualitat del Sistema Universitari de Catalunya, AQU Catalunya **Type of entity:** Agència per a la Qualitat del Sistema Universitari de Catalunya, AQU Catalunya
City accrediting entity: Barcelona, Spain
Date of recognition: 2011