



DAVID HERNANDO JUMILLA

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**DAVID HERNANDO JUMILLA**

Surname(s): **HERNANDO JUMILLA**
 Name: **DAVID**
 Spanish ID number: **17765464B**
 Date of birth: **31/05/1988**
 Sex: **Man**
 Contact address: **JULIO GARCÍA CONDOY, 40, 3ºB**
 Postcode: **50018**
 Contact city: **Zaragoza**
 Contact country: **Spain**
 Land line phone: **(034) 976526216**
 Email address: **dhernand@unizar.es**
 Mobile phone: **(034) 665422132**

Current professional situation only if working (not if unemployed)

Name of the entity: Universidad de Zaragoza **Type of body:** University
Department, Service,...: Departamento de Ingeniería Electrónica y Comunicaciones. Área: Teoría de la Señal y Comunicaciones. Área de conocimiento (Macroárea): Ingeniería y Arquitectura, Escuela de Ingeniería y Arquitectura
Category / Title of position or responsibility: Personal Investigador Formac.
Start date: 01/03/2014
Modality of the contract: Grant-assisted student (pre or post-doctoral, others) **Type of dedication:** Full time

Positions held before current job

	Name of the entity	Category / position or responsibility	Start date
1	Instituto Universitario de Investigación en Ingeniería de Aragón (I3A)	Beca iniciación a la investigación	01/07/2011
2	Centro Politécnico Superior	Beca de colaboración en departamentos universitarios	20/09/2010

1 Name of the entity: Instituto Universitario de Investigación en Ingeniería de Aragón (I3A)
City of job: Zaragoza, Spain
Category / position or responsibility: Beca iniciación a la investigación
Start date: 01/07/2011 **Duration:** 11 months - 29 days

2 Name of the entity: Centro Politécnico Superior
City of job: Zaragoza, Spain
Category / position or responsibility: Beca de colaboración en departamentos universitarios
Start date: 20/09/2010 **Duration:** 9 months - 11 days



Training received

University education

Diplomas, degrees and engineering degrees

- 1 **Name of qualification:** Máster en Ingeniería Biomédica
City of qualification: Zaragoza, Spain
Entity issuing the qualification: Universidad de Zaragoza
Date of qualification: 24/09/2012

- 2 **Name of qualification:** Ingeniero de Telecomunicación Especialidad Comunicaciones
City of qualification: Zaragoza, Spain
Entity issuing the qualification: Universidad de Zaragoza
Date of qualification: 16/09/2011

Language skills

Language	Speech	Reading	Writing
English	Good	Good	Good
Spanish	Good	Good	Good

Teaching experience

Directing of doctoral theses or final projects

Title of: DT, ECP, ASD: Caracterización del acoplo cardiocomotor en pruebas de esfuerzo mediante el procesado de la señal de variabilidad del ritmo cardiaco
Type of project: Proyecto Final de Grado
Co-director of thesis: Bailón Luesma Raquel
Doctorate student: Alberto Hernando Sanz
Mark: Notable
Date of reading: 07/07/2014



Experience in Science and Technology

Participation in research, development or innovation groups / teams

- 1 Name (if applicable):** BIOMEDICAL SIGNAL INTERPRETATION AND COMPUTATIONAL SIMULATION (BSICoS)
Body the group belongs to: Universidad de Zaragoza **Type of body:** University
- 2 Name (if applicable):** Pertenencia a instituto de investigación universitaria
Body the group belongs to: INSTITUTO INVESTIGACIÓN SANITARIA DE ARAGÓN (IIS) **Type of body:** University Research Institute

Scientific or technological activity

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

- 1 Name of the project:** T96 BIOMEDICAL SIGNAL INTERPRETATION AND COMPUTATIONAL SIMULATION (BSICoS).
Project area: Regional
Body where project took place: Escuela De Ingeniería y Arquitectura - Universidad de Zaragoza
Head(s) researcher(s): Juan Pablo Martínez Cortés
Number of participating researchers: 15
Funding body or bodies: DIPUTACION GENERAL DE ARAGON
Start date: 01/01/2014 **Duration of the project:** 1 year
Total amount: 8.610
- 2 Name of the project:** T30 GRUPO DE TECNOLOGÍAS DE LAS COMUNICACIONES (GTC)
Project area: Regional
Body where project took place: Escuela De Ingeniería y Arquitectura - Universidad de Zaragoza
Head(s) researcher(s): Enrique José Masgrau Gómez
Number of participating researchers: 61
Funding body or bodies: DIPUTACION GENERAL DE ARAGON
Start date: 01/01/2013 **Duration of the project:** 1 year
Total amount: 32.535
- 3 Name of the project:** TEC2010-21703-C03-02.PROCESADO MULTIMODAL DE SEÑALES BIOMEDICAS PARA EL ANALISIS Y LA CARACTERIZACION FISIOLÓGICA DE AFECCIONES CARDIOVASCULARES, RESPIRATORIAS Y AUTONÓMICAS.
Project area: National
Body where project took place: Escuela De Ingeniería y Arquitectura - Universidad de Zaragoza
Head(s) researcher(s): Juan Pablo Martínez Cortés
Number of participating researchers: 25
Funding body or bodies: MINISTERIO DE CIENCIA E INNOVACION
Start date: 01/01/2011 **Duration of the project:** 3 years
Total amount: 242.500



- 4** **Name of the project:** GRUPO CONSOLIDADO 2011.T30 GRUPO DE TECNOLOGIAS DE LAS COMUNICACIONES
Project area: Regional
Body where project took place: Escuela De Ingeniería y Arquitectura - Universidad de Zaragoza
Head(s) researcher(s): Enrique José Masgrau Gómez
Number of participating researchers: 78
Funding body or bodies: D.G.A.
Start date: 01/01/2011 **Duration of the project:** 2 years
Total amount: 126.082

Scientific Activities and General Techniques

Scientific production

Publications, Scientific and Technical Documents and any other publication

Frida Sanderg; Raquel Bailón; David Hernando; Pablo Laguna; Juan Pablo Martinez; Kristian Solem; Leif Sörnmo. Prediction of hypotension in hemodialysis patients. PHYSIOLOGICAL MEASUREMENT. 35, pp. 1885 - 1898. 2014. ISSN 0967-3334

Type of production: Article

Work presented in conferences at the national or international level

- 1** **Title:** Characterization of cardiocomotor coupling in heart rate variability during exercise test
Name of the conference: XXXII Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB)
Field of the conference: National
Your role: Speaker
City of the publishing body: Barcelona, Spain
Date of the event: 26/11/2014
Raquel Bailón Luesma.
- 2** **Title:** QRS Detection Optimization in Stress Test Recordings using Evolutionary Algorithms
Name of the conference: Computing in Cardiology 2014
Field of the conference: Non EU International
Your role: Speaker
City of the publishing body: Boston, United States of America
Date of the event: 07/09/2014
Raquel Bailón Luesma.
- 3** **Title:** Influence of Respiration in the Very Low Frequency Modulation of QRS Slopes and Heart Rate Variability in Cardiomyopathy Patients
Name of the conference: Computing in Cardiology, 2013
Field of the conference: Non EU International
Your role: Speaker
City of the publishing body: Zaragoza, Spain
Date of the event: 22/09/2013
Publication in conference minutes: Yes



David Hernando; Alejandro Alcaine; Esther Pueyo; Pablo Laguna; Andrés Arcentales; Beatriz Giraldo; Andreas Voss; Antonio Bayés-Genís; Raquel Bailón. "Influence of Respiration in the Very Low Frequency Modulation of QRS Slopes and Heart Rate Variability in Cardiomyopathy Patients".En: *XL International Conference on Computing in Cardiology*. pp. 117 - 120. 2013.

4 Title: Prediction of Intradialytic Hypotension using PPG and ECG

Name of the conference: Computing in Cardiology, 2013

Field of the conference: Non EU International

City of the publishing body: Zaragoza, Spain

Date of the event: 22/09/2013

Publication in conference minutes: Yes

Frida Sandberg; Raquel Bailón; David Hernando; Pablo Laguna; Juan Pablo Martínez; Kristian Solem; Leif Sörnmo. En: *XL International Conference on Computing in Cardiology*.. pp. 1227 - 1230. 2013.

5 Title: Very low frequency modulation in QRS slopes and its relation with respiration and heart rate variability during hemodialysis

Name of the conference: 35th Annual International Conference of IEEE Engineering in Medicine and Biology Society (EMBC13)

Field of the conference: Non EU International

Your role: Speaker

City of the publishing body: Osaka, Japan

Date of the event: 03/07/2013

David Hernando; Alejandro Alcaine; Pablo Laguna; Esther Pueyo; Raquel Bailón.

6 Title: Clasificación de pacientes propensos y resistentes a hipotensión durante hemodiálisis a partir de la variabilidad del ritmo cardiaco y la presión sanguínea

Name of the conference: XXX Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB)

Field of the conference: National

Your role: Speaker

City of the publishing body: San Sebastián, Spain

Date of the event: 19/11/2012

Publication in conference minutes: Yes

David Hernando; Raquel Bailón; Pablo Laguna; Leif Sörnmo. "Clasificación de pacientes propensos y resistentes a hipotensión durante hemodiálisis a partir de la variabilidad del ritmo cardiaco y la presión sanguínea".En: *Libro de Actas XXX CASEIB 2012 - 19 a 21 de noviembre - San Sebastián*. pp. 0 - null. 2012. ISBN 9788461621477

7 Title: Heart Rate Variability Analysis during Hemodialysis and its Relation with Hypotension

Name of the conference: Computing in Cardiology, 2011

Field of the conference: Non EU International

Your role: Speaker

City of the publishing body: Hangzhou, China

Date of the event: 18/09/2011

Publication in conference minutes: Yes

David Hernando; Raquel Bailón; Pablo Laguna; Leif Sörnmo. "Heart Rate Variability Analysis during Hemodialysis and its Relation with Hypotension".En: *XXXVIII International Conference on Computing in Cardiology*. 38, pp. 189 - 192. 2011. ISBN 0276-6574



Experiences transferred

Experience organising R&D activities

Title: XL International Conference on Computing in Cardiology

Type of activity: Congreso

Area of the activity: Non EU International

Your role: Organiser

Number of attendees: 400

Start date: 22/09/2013

Duration: 4 days

Other credits

Residencies in R&D&I centres or companies in your own country or abroad

- 1 Body where project took place:** Department of Electronics and Communications Engineering, Tampere University
City: Tampere, Finland
Start date: 20/08/2014 **Duration:** 3 months - 16 days
Funding body: CIBER de Bioingeniería, Biomateriales y Nanomedicina, Grupo Consolidado BSICoS
Name of programme: FINCAVAS Database
Aim of the residency: Doctorate
- 2 Body where project took place:** Laboratoire Traitement du Signal et de l'Image (LTSI), Université de Rennes
City: Rennes, France
Start date: 14/01/2014 **Duration:** 3 months - 3 days
Funding body: French Ministry of Health (PHRC program), CIBER de Bioingeniería, Biomateriales y Nanomedicina, Grupo Consolidado BSICoS
Aim of the residency: Doctorate

Collection of other credits.

- 1 Description credits:** Premio al mejor expediente en Ingeniería de Telecomunicación por la cátedra Telefónica - Universidad de Zaragoza.
Premio a mejor expediente en Ingeniería de Telecomunicación por la cátedra Telefónica en la promoción 2006-2011
Date of credit: 17/04/2012
- 2 Description credits:** Premio extraordinario fin de carrera - Universidad de Zaragoza
Premio extraordinario fin de carrera en Ingeniería de Telecomunicación entre quienes finalizaron sus estudios en el curso académico 2010-2011
Date of credit: 26/01/2012