



**Jazmin Aguado Sierra**

Date of document: 07/03/2014

**v 1.3.0**

65429576b10f85f12a5845bae5a56016

Este fichero electrónico (PDF) contiene incrustada la tecnología CVN (CVN-XML). La tecnología CVN de este fichero permite exportar e importar los datos curriculares desde y hacia cualquier base de datos compatible. Listado de Bases de Datos adaptadas disponible en <http://cvn.fecyt.es/>

## Jazmin Aguado Sierra

Surname(s): **Aguado Sierra**  
Name: **Jazmin**  
NIE: **Y2125820J**  
Date of birth: **03/09/1976**  
Gender: **Female**  
Land line phone: **(34) 622648443**  
Email: **jazmin.aguado@bsc.es**

### Current professional situation

**Name of institution:** Centro Nacional de Supercomputación      **Type of institution:** R&D Centre  
**Category/position or post:** PostDoctoral Researcher  
**Start date:** 01/03/2012  
**Type of contract:** Temporary employment contract      **Type of dedication:** Full time  
**Primary (UNESCO code):** 240604 - Bio-mechanics  
**Secondary (UNESCO code):** 240602 - Bioelectricity; 240606 - Medical physics  
**Tertiary (UNESCO code):** 320501 - Cardiology  
**Current professional activity:** Creación de Modelos Electro-Mecánicos del Corazón  
**Activity keywords:** Computational biology; Information technology and data processing

### Previous posts and activities

	Name of institution	Category/position or post	Start date
1	FUNDACIÓ BARCELONA MEDIA UNIVERSITAT POMPEU FABRA	Postdoctoral Researcher	01/11/2011
2	University of California San Diego	PostDoctoral Researcher	01/06/2008
3	Innovamédica S.A. de C.V.	Manager of the Engineering Department	01/10/2002
4	Innovamédica S.A. de C.V.	Auditor on ISO 9001-2000	01/10/2000
5	Innovamédica S.A. de C.V.	Research and Development Engineer	01/10/2000
6	Vitalmex S.A. de C.V.	Junior Specialist on Cardiothoracic surgery devices, equipment and disposables	01/05/1999

**1** **Name of institution:** FUNDACIÓ BARCELONA MEDIA UNIVERSITAT POMPEU FABRA  
**Category/position or post:** Postdoctoral Researcher  
**Start date:** 01/11/2011, 4 months  
**End date:** 30/04/2012

**2** **Name of institution:** University of California San Diego      **Type of institution:** University  
**Category/position or post:** PostDoctoral Researcher



**Start date:** 01/06/2008, 3 years - 1 month

**End date:** 31/07/2011

**3 Name of institution:** Innovamédica S.A. de C.V. **Type of institution:** Innovation and Technology Centres

**Category/position or post:** Manager of the Engineering Department

**Start date:** 01/10/2002, 1 year

**End date:** 01/10/2003

**4 Name of institution:** Innovamédica S.A. de C.V. **Type of institution:** Innovation and Technology Centres

**Category/position or post:** Auditor on ISO 9001-2000

**Start date:** 01/10/2000, 3 years

**End date:** 01/10/2003

**5 Name of institution:** Innovamédica S.A. de C.V. **Type of institution:** Innovation and Technology Centres

**Category/position or post:** Research and Development Engineer

**Start date:** 01/10/2000, 1 year - 11 months

**End date:** 01/09/2002

**6 Name of institution:** Vitalmex S.A. de C.V. **Type of institution:** Business

**Category/position or post:** Junior Specialist on Cardiothoracic surgery devices, equipment and disposables

**Start date:** 01/05/1999, 1 year - 5 months

**End date:** 01/10/2000



## Official training received

### University education

#### University degrees, engineering degrees or master's degrees

**Official qualification:** Higher degree  
**Name of qualification:** Biomedical Engineering Licenciante  
**City of qualification:** Mexico City, Mexico  
**institution issuing the qualification:** Universidad Iberoamericana    **Type of institution:** University  
**Date of qualification:** 12/2000  
**Average mark:** Outstanding  
**Prize:** Special award for degree

#### Doctorates

**Doctorate programme:** Bioengineering  
**University issuing the qualification:** Imperial College London    **Type of institution:** University  
**Date of qualification:** 02/2008

#### Other postgraduate university training

- 1 **Postgraduate qualification:** Summer School: Mathematical Models of the Heart  
**University issuing the qualification:** European Mathematics Society    °: Associations and Groups  
**Faculty, institute or centre:** SIMULA  
**Date of qualification:** 05/2006
- 2 **Postgraduate qualification:** Summer School: Mathematics for Biomedical Engineers  
**University issuing the qualification:** University of Warwick    °: University  
**Faculty, institute or centre:** Department of Mathematics  
**Date of qualification:** 05/2005

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

**Training title:** Auditor on ISO 9001-2000  
**institution issuing the qualification:** Grupo Vitalmex    **Type of institution:** Business  
**Training end date:** 10/2000, 50 hours



## Specialised healthcare training programme

- 1 Specialised training taken:** Specialist on Ventricular Assist Devices  
**Institution issuing the qualification:** Thoratec Inc.      **Type of institution:** Business  
**City:** San Francisco, United States of America  
**Start date:** 01/02/2000 - 20/02/2000, 19 days
- 2 Specialised training taken:** Extracorporeal Circulation  
**Specific title:** Junior Specialist  
**Institution issuing the qualification:** Hospital 20 de Noviembre  
**City:** Mexico D.F., Mexico  
**Start date:** 05/05/1999 - 05/06/1999, 1 month

## Courses completed and seminars attended in order to improve and innovate teaching skills

**Title of course/seminar:** Teacher of English as a Foreign Language  
**Aims of course/seminar:** English teaching diploma  
**Organising institution:** Colegio Guadalupe      **Type of institution:** High School  
**Faculty, institute or centre:** Double Program Highschool  
**Start date:** 01/09/1992  
**End date:** 01/05/1996

## Language skills

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

## Teaching activity

### Subjects given

- 1 Name of subject/course:** Cardiovascular Physiology  
**Qualification:** Masters in Bioengineering  
**Start date:** 10/2008      **End date:** 05/2011  
**institution:** University of California San Diego      **Type of institution:** University  
**Faculty, institute or centre:** Bioengineering Department
- 2 Name of subject/course:** Numerical Analysis for Multi-Scale Biology-Electrophysiology  
**Qualification:** Masters in Bioengineering  
**Start date:** 10/2008      **End date:** 05/2011  
**institution:** University of California San Diego      **Type of institution:** University  
**Faculty, institute or centre:** Bioengineering Department



- 3 Name of subject/course:** Foundations for Engineering  
**Qualification:** Bioengineering  
**Start date:** 10/2004 **End date:** 05/2007  
**institution:** Imperial College London **Type of institution:** University  
**Faculty, institute or centre:** Bioengineering Department
- 4 Name of subject/course:** Solid and Fluid Mechanics  
**Qualification:** Bioengineering  
**Start date:** 10/2004 **End date:** 05/2007  
**institution:** Imperial College London **Type of institution:** University  
**Faculty, institute or centre:** Bioengineering Department

### Academic tuition of students

- 1 Programme:** Doctorate  
**institution:** University of California San Diego **Type of institution:** University  
**City:** La Jolla, San Diego, United States of America  
**Number of tutored students:** 3
- 2 Programme:** Bsc Bioengineering Degree  
**institution:** Imperial College London **Type of institution:** University  
**City:** London, Inner London, United Kingdom  
**Number of tutored students:** 80

### Courses and seminars given oriented to university teaching training

- 1 Type of event:** Workshop  
**Name of the event:** NBCR Summer Institute 2010  
**Organising institution:** National Biomedical Computation Resource **Type of institution:** Administrative Body of the National Health System  
**Hours of teaching:** 40  
**Training date:** 08/2010
- 2 Type of event:** Workshop  
**Name of the event:** NBCR Summer Institute 2009  
**Organising institution:** National Biomedical Computation Resource **Type of institution:** Administrative Body of the National Health System  
**Hours of teaching:** 40  
**Training date:** 08/2009
- 3 Type of event:** Workshop  
**Name of the event:** NBCR Summer Institute 2008  
**Organising institution:** National Biomedical Computation Resource **Type of institution:** Administrative Body of the National Health System  
**Hours of teaching:** 40  
**Training date:** 08/2008



## Other activities/achievements not included above

**Description of the activity:** PhD Student's Representative, Bioengineering Department  
**Organising institution:** Imperial College London      **Type of institution:** University  
**Activity end date:** 2006

## Experience in the healthcare field

### Healthcare experience in EU institutions

**Most relevant results:** Clinical data acquisition and experimentation  
**Describe using keywords:** Cardiovascular disorders  
**Institution:** St. Mary's Hospital, Imperial College London      **Type of institution:** Healthcare Institutions  
**City:** London, Inner London, United Kingdom  
**EU institution of the experience:** St. Mary's Hospital, Imperial College London  
**Start date:** 01/10/2003 - 01/01/2008, 4 years - 3 months

### Healthcare experience in other international bodies

- 1 **Most relevant results:** Collaboration and experimentation  
**Describe using keywords:** Cardiovascular disorders  
**institution:** University of California San Diego Health System      **Type of institution:** Healthcare Institutions  
**Department:** Cardiology, University of California San Diego Health System  
**City:** La Jolla, San Diego, United States of America  
**Start date:** 01/06/2008 - 01/07/2011, 3 years
- 2 **Most relevant results:** Validation of the Impedance Spectrometer for assessing tissue damage  
**institution:** Yale University      **Type of institution:** Healthcare Institutions  
**Department:** Medical Imaging, Yale University  
**Start date:** 11/2002 - 12/2002,
- 3 **Most relevant results:** Extracorporeal Circulation Training  
**institution:** Hospital 20 de Noviembre      **Type of institution:** Healthcare Institutions  
**Department:** Cardiology, Hospital 20 de Noviembre  
**Start date:** 05/05/1999 - 05/06/1999,



## Participation in healthcare innovation projects

- 1** **Name of the project:** Development of a Ventricular Assist Device  
**Type of project:** Medical Equipment development **Type of participation:** Coordinator  
**Dedication:** Part time  
**Head researcher:** Emilio Sacristán Rock  
**Institution where project took place:** Innovamedica S.A. de C.V. **Type of institution:** Business  
**City:** Mexico City, Mexico  
**Funding institution:** Consejo Nacional de Ciencia y Tecnología **Type of institution:** Administrative Body of the National Health System  
**City:** Mexico D.F., Mexico  
**Start date:** 01/10/2000, 3 years
- 2** **Name of the project:** Impedance Spectrometer for assessment of tissue damage  
**Type of project:** Medical Equipment **Type of participation:** Coordinator  
**Head researcher:** Emilio Sacristán Rock  
**Institution where project took place:** Innovamedica S.A. de C.V. **Type of institution:** Business  
**City:** Mexico D.F., Mexico  
**Funding institution:** Consejo Nacional de Ciencia y Tecnología **Type of institution:** Business  
**City:** Mexico D.F., Mexico  
**Start date:** 01/10/2000, 3 years

## Participation in conferences, courses and seminars oriented to healthcare

- 1** **City:** Tokyo, Japan  
**Organising institution:** Japan Society of Ultrasonics in Medicine **Type of institution:** Associations and Groups  
**City:** Tokyo, Japan  
**Participation date:** 05/2005  
 Arterial pulse wave velocity: comparison of different methods.
- 2** **City:** Orlando, Florida, United States of America  
**Organising institution:** Society of Critical Care Medicine **Type of institution:** Associations and Groups  
**Participation date:** 02/2004  
 Gastrointestinal intraluminal spectroscopy to monitor splanchnic hypoperfusion and tissue damage.





## Experience in science and technology

### Participation in research, development or innovation groups/teams

- 1 Name of the group:** Cardiac Mechanics Research Group  
**Aims of the group:** Study cardiac electro-mechanics  
**Type of collaboration:** Co-authorship of projects and their development  
**Institution the group belongs to:** University of California San Diego      **Type of institution:** University  
**Start date:** 01/06/2008, 3 years - 1 month
- 2 Name of the group:** International Centre for Circulatory Health  
**Aims of the group:** New methods of early diagnosis and testing the function of blood vessels  
**Type of collaboration:** Co-authorship of publications  
**Institution the group belongs to:** St. Mary's Hospital      **Type of institution:** Healthcare Institutions  
**Start date:** 01/10/2003, 10 years - 3 months
- 3 Name of the group:** Physiological Flow Studies Group  
**Aims of the group:** Test and create mathematical cardiovascular flow models  
**Type of collaboration:** Co-authorship of projects and their development  
**Institution the group belongs to:** Imperial College London      **Type of institution:** University  
**Start date:** 01/10/2003, 4 years - 5 months
- 4 Name of the group:** Innovamedica  
**Aims of the group:** Develop an Impedance Spectrometer  
**Type of collaboration:** Co-authorship of protected modes of technology  
**Institution the group belongs to:** Grupo Vitalmex      **Type of institution:** Business  
**Start date:** 01/10/2000, 3 years

### Scientific or technological activity

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

- 1 Name of the project:** SEVERO OCHOA  
**Describe using keywords:** Computational biology; Cardiovascular disorders; Medical computing  
**Describe using keywords:** Architecture of computers; Biocomputer; Computational biology; Computacional fluid dynamics; Medical computing  
**Project type:** Research and development, including transfer      **Project area:** National  
**Role:** Researcher  
**Institution where project took place:** Centro Nacional de Supercomputación      **Type of institution:** R&D Centre  
**City:** Barcelona, Catalonia, Spain  
**Type of participation:** Coordinator  
**Name of the programme:** Centro de Excelencia Severo Ochoa



**Start date:** 31/12/2011, 5 years

**End date:** 30/12/2015

**Total amount:** 4.000.000

**Dedication:** Full time

**Applicant's contribution:** Leader of the Cardiovascular modeling project of the Department of Computer Applications in Science and Technology. I am the main developer/programmer/implementer of physiological mathematical models for highly detailed multi-scale models of the heart. I am the main point of contact with Medical Doctors with whom we collaborate. Hospitals we collaborate with include: Hospital Sant Pau, Barcelona; Hospital Vall d'Hebron, Barcelona; Hospital Bellvitge, Barcelona; Hospital Clínic, Barcelona. Universities we collaborate with include: Universidad de Lleida, Universidad de Zaragoza, Universidad de Valencia, Universitat Pompeu Fabra, Barcelona. Other international collaborators include: Masonic Medical Research Laboratory, Utica, NY, USA.

**2 Name of the project:** Multi-Scale Modeling of the Failing Heart for Cardiac Resynchronization Therapy

**Describe using keywords:** Computational biology; Cardiovascular disorders; Medical computing

**Describe using keywords:** Computational biology; Cardiovascular disorders; Medical computing

**Project type:** Basic research (including archaeological digs, etc)

**Project area:** Non EU International

**Role:** Researcher

**Institution where project took place:** University of California San Diego

**Type of institution:** University

**City:** La Jolla, United States of America

**Head(s) researcher(s):** Andrew D. McCulloch

**Funding institution or bodies:**

NIH NHLBI 1R01HL96544-1

**Type of institution:** Administrative Body of the National Health System

**City:** United States of America

**Type of participation:** Collaborator

**Name of the programme:** National Institutes of Health

**Start date:** 01/07/2009

**End date:** 30/06/2014

**Participating bodies:** Division of Cardiovascular Medicine; University of San Diego Health Care System

**Dedication:** Full time

**Applicant's contribution:** Main Researcher on the area of Electrophysiology. Developed Ionic Cell models to create fully coupled, patient-specific, electro-mechanical models of the heart to study Cardiac Resynchronization therapy. I wrote various publications, a book chapter, and involved in the training of Master's Students of the Department of Bioengineering of the University of California San Diego.

**3 Name of the project:** National Biomedical Computational Resource: Project 4A.2B (McCulloch PI) Multiscale Modeling Environment for Tissue and Organ Biophysics

**Describe using keywords:** Computational biology; Medical computing

**Describe using keywords:** Biocomputer; Computational biology; Medical computing; Computer vision

**Project type:** Research and development, including transfer

**Project area:** Non EU International

**Role:** Researcher

**Institution where project took place:** University of California San Diego

**Type of institution:** University

**City:** La Jolla, United States of America

**Head(s) researcher(s):** Peter Arzberger

**Number of researchers:** 16

**Funding institution or bodies:**

NIH/NCRR P41RR08605



**Type of institution:** Administrative Body of the National Health System

**City:** United States of America

**Type of participation:** Collaborator

**Name of the programme:** National Institutes of Health

**Start date:** 01/05/2009

**End date:** 30/04/2014

**Participating bodies:** California Institute for Telecommunication and Information Technology; Center for Research in Biological Systems; NCMIR; Pacific Rim Application and Grid Middleware Assembly

**Dedication:** Part time

**Applicant's contribution:** Provided the expertise on the use of a Mutli-scale, computational software called "Continuity", for cardiac simulations. I provided training for the NBCR network every year. We organized workshops where we taught the use of the finite element code to Researchers from all over the world, interested on using our tools.

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

#### 1 Name of the project: Corazón Artificial

**Describe using keywords:** Medical equipment; Cardiovascular disorders

**Project type:** Research and development, including transfer **Project area:** Non EU International

**Role:** Scientific coordinator

**Institution where project took place:** Universidad Autónoma Metropolitana **Type of institution:** University

**City:** México, Mexico

**Head researcher:** Emilio Sacristán Rock

**Number of researchers:** 65

**Participating bodies:** Centro Médico Nacional Siglo XXI; Instituto Nacional de Cardiología Ignacio Chávez; Universidad Autónoma Metropolitana

**Funding institution or bodies:**

Innovamédica S.A. de C.V.

**Type of institution:** Business

**City:** México D.F., Mexico

CONACYT

**Type of institution:** Consejo Nacional de Ciencia y Tecnología

**City:** México D.F., Mexico

**Type of project:** Coordination

**Start date:** 01/12/2001, 13 years

**Total amount:** 13

**Most relevant results:** Developed a ventricular assist device, that is in clinical trials at the moment.

#### 2 Name of the project: Espectrómetro de Impedancia para monitoreo de daño tisular

**Project type:** Research and development, including transfer **Project area:** Non EU International

**Role:** Researcher

**Institution where project took place:** Universidad Autónoma Metropolitana **Type of institution:** University

**City:** Mexico D.F, Mexico

**Head researcher:** Emilio Sacristán Rock

**Number of researchers:** 10



**Participating bodies:** Universidad Autónoma Metropolitana

**Funding institution or bodies:**

INNOVAMÉDICA S.A. DE C.V.

**Type of institution:** Business

**City:** Mexico D.F., Mexico

**Type of project:** Cooperation

**Start date:** 01/10/2000, 10 years

**Total amount:** 10

**Most relevant results:** Redesign of the Espectrómetro following safety standards for Clínica use

**Describe using keywords:** Medical equipment

## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1** Guillermo Marin; Fernando M Cucchiatti; Mariano Vazquez; Carlos Tripiana; Guillaume Houzeaux; Ruth Aris; Pierre Lafortune; Jazmin Aguado-Sierra. ALYA RED: A COMPUTATIONAL HEART. Science. 339 - 6119, pp. 518 - 519. (United States of America): AMER ASSOC ADVANCEMENT SCIENCE, 02/2013. ISSN 0036-8075

**Type of production:** Article **Format:** Journal

**Impact source:** ISI **Category:** Science Edition - MULTIDISCIPLINARY SCIENCES

**Impact index:** 31.027 **Journal in the top 25%:** Yes

**Position:** 2 **No. of journals in the cat.:** 56
- 2** Justin E Davies; Jordi Alastruey; Darrel P Francis; Nearchos Hadjiloizou; Zachary I Whinnett; Charlotte H Manisty; Jazmin Aguado-Sierra; Keith Willson; Rodney A Foale; Iqbal S Malik; Alun D Hughes; Kim H Parker; Jamil Mayet. Attenuation of wave reflection by wave entrapment creates a "horizon effect" in the human aorta. Hypertension. 60 - 3, pp. 778 - 785. (United States of America): LIPPINCOTT WILLIAMS & WILKINS, 09/2012. ISSN 0194-911X

**Type of production:** Article **Format:** Journal

**Ranking:** 1 **Acting as:** Author or co-author of article in journal with external admissions assessment committee

**Impact source:** ISI **Category:** PERIPHERAL VASCULAR DISEASE

**Impact index:** 6.984 **Journal in the top 25%:** Yes

**Position:** 3 **No. of journals in the cat.:** 68

**Source of quotes:** Google Scholar **Quotes:** 9
- 3** Jazmin Aguado-Sierra; Adarsh Krishnamurthy; Christopher Villongco; Joyce Chuang; Elliot Howard; Matthew J Gonzales; Jeff Omens; David E Krummen; Sanjiv Narayan; Roy C P Kerckhoffs; Andrew D McCulloch. Patient-specific modeling of dyssynchronous heart failure: a case study. Prog Biophys Mol Biol. 107 - 1, pp. 147 - 155. (United Kingdom): PERGAMON-ELSEVIER SCIENCE LTD, 10/2011. ISSN 0079-6107

**Type of production:** Article **Format:** Journal

**Impact source:** ISI **Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

**Impact index:** 3.844 **No. of journals in the cat.:** 72

**Position:** 32

**Source of quotes:** Google Scholar**Quotes:** 26

- 4** Nearchos Hadjiloizou; Justin Davies; J Baksi; I Malik; S Shai; Jazmin Aguado Sierra; R Foale; Kim H Parker; Darrel Francis; Alun Hughes; Jamil Mayet. Different effects of left ventricular hypertrophy secondary to hypertension and aortic stenosis on wave generation in the coronary arteries. *Journal of Human Hypertension*. 24 - 20, pp. 703 - 703. NATURE PUBLISHING GROUP, 10/2010. ISSN 0950-9240

**Type of production:** Article**Format:** Journal**Acting as:** Author or co-author of article in journal with external admissions assessment committee**Impact source:** ISI**Category:** Science Edition - PERIPHERAL VASCULAR DISEASE**Impact index:** 2.818**Position:** 26**No. of journals in the cat.:** 68

- 5** Justin E Davies; John Baksi; Darrel P Francis; Nearchos Hadjiloizou; Zachary I Whinnett; Charlotte H Manisty; Jazmin Aguado-Sierra; Rodney A Foale; Iqbal S Malik; John V Tyberg; Kim H Parker; Jamil Mayet; Alun D Hughes. The arterial reservoir pressure increases with aging and is the major determinant of the aortic augmentation index. *Am J Physiol Heart Circ Physiol*. 298 - 2, pp. H580 - 6. AMER PHYSIOLOGICAL SOC, 02/2010. ISSN 0363-6135

**Type of production:** Article**Format:** Journal**Acting as:** Author or co-author of article in journal with external admissions assessment committee**Impact source:** ISI**Category:** Physiology (medical)**Impact index:** 3.855**Journal in the top 25%:** Yes**Position:** 16**No. of journals in the cat.:** 80**Source of quotes:** Google Scholar**Quotes:** 53

- 6** Jazmin Aguado-Sierra; Roy CP Kerckhoffs; Fred Lionetti; Darlene Hunt; Chris Villongco; Matt Gonzales; Stuart G Campbell; Andrew D McCulloch. *A Computational Framework for Patient-Specific Multi-Scale Cardiac Modeling*. pp. 203 - 223. Springer, 2010.

**Type of production:** Chapters of books**Format:** Book**Source of quotes:** Google Scholar**Quotes:** 1

- 7** Justin E Davies; Darrel P. Francis; Nearchos Hadjiloizou; Zachary I Whinnett; Charlotte H Manisty; Jazmin Aguado Sierra; Iqbal S Malik; Kim H Parker; Alun Hughes; Jamil Mayet. Augmentation of Coronary Blood Flow in Systole by Reflected Waves in the Proximal Aorta. *IFMBE Proceedings*. 25, pp. 61 - 64. Springer, 09/2009. ISSN 1680-0737

**Type of production:** Article**Format:** Journal**Acting as:** Author or co-author of article in journal with external admissions assessment committee

- 8** Stuart G Campbell; Elliot Howard; Jazmin Aguado-Sierra; Benjamin A Coppola; Jeffrey H Omens; Lawrence J Mulligan; Andrew D McCulloch; Roy C P Kerckhoffs. Effect of transmurally heterogeneous myocyte excitation-contraction coupling on canine left ventricular electromechanics. *Exp Physiol*. 94 - 5, pp. 541 - 552. (United Kingdom): WILEY-BLACKWELL, 05/2009. ISSN 0958-0670

**Type of production:** Article**Format:** Journal**Acting as:** Author or co-author of article in journal with external admissions assessment committee**Impact source:** ISI**Category:** Physiology (medical)**Impact index:** 3.050**Position:** 28**No. of journals in the cat.:** 80**Source of quotes:** Google Scholar**Quotes:** 24



- 9** Nearchos Hadjiloizou; Justin E Davies; Arun J Baksi; Iqbal Malik; Jazmin Aguado Sierra; Rodney A Foale; Kim H Parker; Darrel Francis; Alun D Hughes. Determinants of the Coronary Flow Velocity Waveforms in Aortic Stenosis. *Circulation*. 118 - 18, pp. S736 - S736. American Heart Association, 28/10/2008. ISSN 0009-7322  
**Type of production:** Article **Format:** Journal  
**Acting as:** Author or co-author of article in journal with external admissions assessment committee  
**Impact source:** ISI **Category:** Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS  
**Impact index:** 15.385 **Journal in the top 25%:** Yes  
**Position:** 1 **No. of journals in the cat.:** 124
- 10** Nearchos Hadjiloizou; Justin E Davies; Iqbal S Malik; Jazmin Aguado-Sierra; Keith Willson; Rodney A Foale; Kim H Parker; Alun D Hughes; Darrel P Francis; Jamil Mayet. Differences in cardiac microcirculatory wave patterns between the proximal left mainstem and proximal right coronary artery. *Am J Physiol Heart Circ Physiol*. 295 - 3, pp. H1198 - H1205. (United States of America): 09/2008. ISSN 0363-6135  
**Type of production:** Article **Format:** Journal  
**Acting as:** Author or co-author of article in journal with external admissions assessment committee  
**Impact source:** ISI **Category:** Physiology (medical)  
**Impact index:** 3.855 **Journal in the top 25%:** Yes  
**Position:** 16 **No. of journals in the cat.:** 80  
**Source of quotes:** Google Scholar **Quotes:** 19
- 11** Peripheral pulsatile arterial pressure is determined by the central reservoir, which is similar across different arterial sites. *Heart*. 94, pp. A114 - A115. Manchester(United Kingdom): B M J PUBLISHING GROUP, 07/2008. ISSN 1355-6037  
**Type of production:** Article **Format:** Journal  
**Acting as:** Author or co-author of article in journal with external admissions assessment committee  
**Impact source:** ISI **Category:** CARDIAC & CARDIOVASCULAR SYSTEMS  
**Impact index:** 5.014 **Journal in the top 25%:** Yes  
**Position:** 22 **No. of journals in the cat.:** 124
- 12** J Aguado-Sierra; J Alastruey; J-J Wang; N Hadjiloizou; J Davies; K H Parker. Separation of the reservoir and wave pressure and velocity from measurements at an arbitrary location in arteries. *Proc Inst Mech Eng H*. 222 - 4, pp. 403 - 416. (United Kingdom): SAGE PUBLICATIONS LTD, 05/2008. ISSN 0954-4119  
**Type of production:** Article **Format:** Journal  
**Acting as:** Author or co-author of article in journal with external admissions assessment committee  
**Impact source:** ISI **Category:** Science Edition - ENGINEERING, BIOMEDICAL  
**Impact index:** 1.419 **No. of journals in the cat.:** 79  
**Position:** 46 **Quotes:** 36  
**Source of quotes:** Google Scholar
- 13** Jazmin Aguado-Sierra; Justin E Davies; Nearchos Hadjiloizou; Darrel Francis; Jamil Mayet; Alun D Hughes; Kim H Parker. Reservoir-wave separation and wave intensity analysis applied to carotid arteries: a hybrid 1D model to understand haemodynamics. *Conf Proc IEEE Eng Med Biol Soc*. 2008, pp. 1381 - 1384. 2008. ISSN 1557-170X  
**Type of production:** Article **Format:** Journal  
**Source of quotes:** Google Scholar **Quotes:** 6

- 14** A.S.N. Malaweera; Justin E Davies; Nearchos Hadjiloizou; Charlotte Manisty; A Zambanini; Jazmin Aguado Sierra; Simon Thom; Kim H Parker; Darrel P Francis; Jamil Mayet; Alun D Hughes. Pulsatile arterial pressure is predominantly determined by the aortic reservoir, which can be determined non-invasively from peripheral measurement sites. *Journal of Human Hypertension*. 21 - 10, pp. 849 - 850. NATURE PUBLISHING GROUP, 10/2007. ISSN 0950-9240
- Type of production:** Article **Format:** Journal  
**Impact source:** ISI **Category:** Cardiovascular System & Cardiology  
**Impact index:** 2.818 **No. of journals in the cat.:** 68  
**Position:** 26
- 15** Justin E Davies; Darrel P Francis; Charlotte H Manisty; Nearchos Hadjiloizou; Jazmin Aguado Sierra; Iqbal S Malik; Rodney A Foale; Alun D Hughes; Kim H Parker; Jamil Mayet. A unifying explanation of the aortic pulse waveform in humans. *Journal of the American College of Cardiology*. 49 - 9, pp. 397A - 398A. ELSEVIER SCIENCE INC, 06/03/2007. ISSN 0735-1097
- Type of production:** Article **Format:** Journal  
**Acting as:** Author or co-author of article in journal with external admissions assessment committee  
**Impact source:** ISI **Category:** Cardiac & Cardiovascular Systems  
**Impact index:** 14.086 **Journal in the top 25%:** Yes  
**Position:** 3 **No. of journals in the cat.:** 124
- 16** Ryo Torii; Nigel B Wood; Alun D Hughes; Simon A Thom; Jazmin Aguado-Sierra; Justin E Davies; Darrel P Francis; Kim H Parker; X Yun Xu. A computational study on the influence of catheter-delivered intravascular probes on blood flow in a coronary artery model. *J Biomech*. 40 - 11, pp. 2501 - 2509. (United Kingdom): ELSEVIER SCI LTD, 2007. ISSN 0021-9290
- Type of production:** Article **Format:** Journal  
**Acting as:** Author or co-author of article in journal with external admissions assessment committee  
**Impact source:** ISI **Category:** Science Edition - ENGINEERING, BIOMEDICAL  
**Impact index:** 3.031 **Journal in the top 25%:** Yes  
**Position:** 18 **No. of journals in the cat.:** 79
- Source of quotes:** Google Scholar **Quotes:** 11
- 17** Justin E Davies; Nearchos Hadjiloizou; Debora Leibovich; Anura Malaweera; Jordi Alastruey-Armon; Zachary I Whinnett; Charlotte H Manisty; Darrel P Francis; Jazmin Aguado-Sierra; Rodney A Foale; others. Importance of the aortic reservoir in determining the shape of the arterial pressure waveform--The forgotten lessons of Frank. *Artery Research*. 1 - 2, pp. 40 - 45. Elsevier, 2007.
- Type of production:** Article **Format:** Journal  
**Source of quotes:** Google Scholar **Quotes:** 29
- 18** Jazmin Aguado-Sierra; Nearchos Hadjilizou; Justin E Davies; Darrel Francis; Jamil Mayet; Kim H Parker. Pressure reservoir-wave separation applied to the coronary arterial data. *Conf Proc IEEE Eng Med Biol Soc*. 2007, pp. 2693 - 2696. 2007. ISSN 1557-170X
- Type of production:** Article **Format:** Journal  
**Source of quotes:** Google Scholar **Quotes:** 2
- 19** Justin E Davies; Zachary I Whinnett; Darrel P Francis; Charlotte H Manisty; Jazmin Aguado-Sierra; Keith Willson; Rodney A Foale; Iqbal S Malik; Alun D Hughes; Kim H Parker; Jamil Mayet. Evidence of a dominant backward-propagating "suction" wave responsible for diastolic coronary filling in humans, attenuated in left ventricular hypertrophy. *Circulation*. 113 - 14, pp. 1768 - 1778. (United States of America): LIPPINCOTT WILLIAMS & WILKINS, 04/2006.

**Type of production:** Article**Format:** Journal**Acting as:** Author or co-author of article in journal with external admissions assessment committee**Impact source:** ISI**Category:** Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS**Impact index:** 15.385**Journal in the top 25%:** Yes**Position:** 1**No. of journals in the cat.:** 124**Source of quotes:** Google Scholar**Quotes:** 133

- 20** J Aguado-Sierra; K H Parker; J E Davies; D Francis; A D Hughes; J Mayet. Arterial pulse wave velocity in coronary arteries. Conf Proc IEEE Eng Med Biol Soc. 1, pp. 867 - 870. IEEE, 2006. ISSN 1557-170X

**Type of production:** Article**Format:** Journal**Acting as:** Author or co-author of article in journal with external admissions assessment committee**Source of quotes:** Google Scholar**Quotes:** 11

- 21** Salah Othman; Emilio Sacristan; Cesar A Gonzalez; Javier Pinzon; Jazmin Aguado; Pedro Flores; Oscar Infante. In situ impedance spectroscopy of the intestinal mucosa in an ischemia-reperfusion model. Engineering in Medicine and Biology Society, 2003. Proceedings of the 25th Annual International Conference of the IEEE. 4, pp. 3207 - 3210. IEEE, 2003.

**Type of production:** Article**Format:** Journal**Source of quotes:** Google Scholar**Quotes:** 5

### Work presented in conferences at the national or international level

- 1** **Title:** A framework for anti-arrhythmics drugs testing using a multi-scale computational heart employing Alya Red

**Name of the conference:** International Conference on Computational Science**City:** Barcelona, Catalonia, Spain**Date:** 06/06/2013**End date:** 07/06/2013**Organising institution:** Universitat Politècnica de Catalunya **Type of institution:** University**City:** Barcelona, Catalonia, Spain

Jazmin Aguado-Sierra. "Conference Presentation".

- 2** **Title:** A framework for anti-arrhythmic drugs testing using a multi-scale computational heart employing Alya Red

**Name of the conference:** Modeling and Simulation of Physiological Systems**City:** Lisbon, Lisboa, Portugal**Date:** 07/12/2012**End date:** 08/12/1012**Organising institution:** UT Austin & Instituto Superior Técnico **Type of institution:** University**City:** Lisbon, Lisboa, Portugal

Jazmin Aguado-Sierra. "Conference presentation".

- 3** **Title:** Multiple Ion Channel Block Simulations on a Computational, Transmurally Heterogeneous, Fully Coupled, Electro-Mechanics Model of the Human Heart in a Geometrically Accurate Anatomical Model to assess Torsadogenic Risk

**Name of the conference:** Bioengineering 12





**City:** Oxford, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom

**Date:** 07/09/2012

**End date:** 07/09/2012

**Organising institution:** The Bioengineering Society **Type of institution:** Associations and Groups UK

**City:** London, Inner London, United Kingdom

Jazmin Aguado-Sierra. "Conference Presentation".

**4 Title:** Multi-Scale Modeling of Ventricular Excitation-Contraction Coupling.

**Name of the conference:** The 3rd MEI International Symposium "Physiome and Systems Biology for Integrated Life Sciences and Predictive Medicine

**City:** San Francisco, United States of America

**Date:** 30/11/2008

**End date:** 02/12/2008

**Organising institution:** The Center for Advanced Medical Engineering and Informatics **Type of institution:** University Centres and Structures and Associated Bodies

**City:** Osaka, Japan

Jazmin Aguado Sierra; Stuart Campbell; Elliot Howard; Roy C Kerckhoffs; Andrew D. McCulloch. "Multi-Scale Modeling of Ventricular Excitation-Contraction Coupling."

**5 Title:** Estimation of the Left Ventricular Elastance from Reservoir-Wave Separation of Pressure in the Aorta.

**Name of the conference:** 18th Conference of the Cardiovascular System Dynamics Society 2008

**City:** St Louis, Missouri, United States of America

**Date:** 27/09/2008

**End date:** 30/09/2008

**Organising institution:** Cardiovascular System Dynamics Society **Type of institution:** Associations and Groups

**City:** Philadelphia, United States of America

Jazmin Aguado Sierra; Vincent Forster; Jeff Omens; Roy C Kerckhoffs. "Estimation of the Left Ventricular Elastance from Reservoir-Wave Separation of Pressure in the Aorta."

**6 Title:** Arterial pressure and velocity reservoir-wave separation: Application to measurements in the coronary arteries of humans.

**Name of the conference:** Fifth Physiological Flow Meeting: Size, sex and sight.

**City:** London, Inner London, United Kingdom

**Date:** 03/09/2007

**End date:** 04/09/2007

**Organising institution:** Physiological Flow Network **Type of institution:** University Centres and Structures and Associated Bodies

**City:** London, Inner London, United Kingdom

Jazmin Aguado Sierra; Nearchos Hadjilizou; Justin E. Davies; Darrel Francis; Jami Mayet; Kim H Parker. "Arterial pressure and velocity reservoir-wave separation: Application to measurements in the coronary arteries of humans."

**7 Title:** Wave speed in arteries.

**Name of the conference:** Endothelium: The Determinant of Cardiovascular Health and Disease.

International Workshop of The Physiological Society, 15th Symposium of Jagiellonian Medical Research Centre

**City:** Krakow, Poland

**Date:** 09/05/2007

**End date:** 12/05/2007

**Organising institution:** The Physiological Society **Type of institution:** Foundation



**City:** London, Inner London, United Kingdom

Jazmin Aguado Sierra; Justin E Davies; Darrel Francis; Jamil Mayet; Kim H. Parker. "Wave speed in arteries."

- 8** **Title:** Separation of the reservoir and wave pressure and velocity from measurements at an arbitrary location in arteries: Implications and applications.  
**Name of the conference:** Fourth Physiological Flow Meeting: Respiratory Biomechanics and Physiological Fluid-Structure Interactions Problems  
**City:** Manchester, Greater Manchester, United Kingdom  
**Date:** 02/04/2007  
**End date:** 02/04/2007  
**Organising institution:** The Physiological Flow Network  
**Type of institution:** University Centres and Structures and Associated Bodies  
**City:** London, Inner London, United Kingdom  
Jazmin Aguado Sierra; Jordi Alastruey Arimon; Kim H. Parker. "Separation of the reservoir and wave pressure and velocity from measurements at an arbitrary location in arteries: Implications and applications."
- 9** **Title:** The coronary artery windkessel.  
**Name of the conference:** 17th Conference of the Cardiovascular System Dynamics Society 2006  
**City:** Vaals, Holland  
**Date:** 09/09/2006  
**End date:** 12/09/2006  
**Organising institution:** Cardiovascular System Dynamics Society  
**Type of institution:** Associations and Groups  
**City:** Philadelphia, United States of America  
"The coronary artery windkessel."
- 10** **Title:** Coronary haemodynamics in humans using wave intensity analysis  
**Name of the conference:** World Congress of Biomechanics  
**City:** Munich, Germany  
**Date:** 07/2006  
**End date:** 07/2006  
**Organising institution:** World Council of Biomechanics  
**Type of institution:** Associations and Groups  
**City:** Fairfield, Connecticut, United States of America  
Jazmin Aguado Sierra; Justin E. Davies; Darrel P. Francis; Zachary I Whinnet; Charlotte H. Manisty; K Willson; RA Foale; IS Malik; Alun D. Hughes; Jamil Mayet; Kim H. Parker. "Coronary haemodynamics in humans using wave intensity analysis".
- 11** **Title:** The role of wave speed in wave intensity analysis: a sensitivity study in coronary arterial data  
**Name of the conference:** World Congress of Biomechanics  
**City:** Munich, Germany  
**Date:** 07/2006  
**End date:** 07/2006  
**Organising institution:** World Council of Biomechanics  
**Type of institution:** Associations and Groups  
**City:** Fairfield, Connecticut, United States of America  
Jazmin Aguado Sierra; Justin E. Davies; Jamil Mayet; Darrel P. Francis; Alun D. Hughes; Kim H. Parker. "The role of wave speed in wave intensity analysis: a sensitivity study in coronary arterial data".



- 12** **Title:** Wave intensity analysis: A one-dimensional approach for understanding coronary arterial haemodynamics  
**Name of the conference:** First Symposium of the Cardiovascular Technology Network,  
**City:** London, Inner London, United Kingdom  
**Date:** 11/2005  
**End date:** 11/2005  
**Organising institution:** Institute of Biomedical Engineering, Imperial College London  
**Type of institution:** University Centres and Structures and Associated Bodies  
**City:** London, Inner London, United Kingdom  
Jazmin Aguado Sierra; Justin E. Davies; Jamil Mayet; Kim H. Parker. "Wave intensity analysis: A one-dimensional approach for understanding coronary arterial haemodynamics".
- 13** **Title:** Wave intensity analysis and wave speed in coronary arteries  
**Name of the conference:** The Physiological Flow Network Conference  
**City:** Edinburgh, Eastern Scotland, United Kingdom  
**Date:** 09/2005  
**End date:** 09/2005  
**Organising institution:** The Physiological Flow Network  
**Type of institution:** University Centres and Structures and Associated Bodies  
**City:** London, Inner London, United Kingdom  
Jazmin Aguado Sierra; Justin E. Davies; Alun D. Hughes; Jamil Mayet; Kim H. Parker. "Wave intensity analysis and wave speed in coronary arteries".
- 14** **Title:** Arterial pulse wave velocity: comparison of different methods  
**Name of the conference:** The 78th Annual Workshops Memberships of Professional Bodies Reviews Computer Skills Hobbies Professional References Scientific Meeting of the Japan Society of Ultrasonics in Medicine  
**City:** Tokyo, Japan  
**Date:** 20/05/2005  
**End date:** 22/05/2005  
**Organising institution:** Japan Society of Ultrasonics in Medicine  
**Type of institution:** Associations and Groups  
**City:** Tokyo, Japan  
Jazmin Aguado Sierra; Darrel P. Francis; Alun D. Hughes; Jamil Mayet; Simon Thom; Kim H. Parker. "Arterial pulse wave velocity: comparison of different methods".
- 15** **Title:** Determining  $\#c$  in coronary arteries  
**Name of the conference:** Arterial Function and Wave Intensity: Concepts, Controversies and Clinical Applications  
**City:** London, Inner London, United Kingdom  
**Date:** 04/2005  
**End date:** 04/2005  
**Organising institution:** Imperial College London  
**Type of institution:** University  
**City:** London, Inner London, United Kingdom  
Jazmin Aguado Sierra; Kim H. Parker. "Determining  $\#c$  in coronary arteries".
- 16** **Title:** The use of impedance spectroscopy to assess intestinal mucosa injury in an ischemia-reperfusion model  
**Name of the conference:** 3rd Latin American Congress on Biomedical Engineering  
**City:** Joa #o Pessoa, Brazil  
**Date:** 09/2004  
**End date:** 09/2004



**Organising institution:** Latin American Biomedical Engineering Society    **Type of institution:** Associations and Groups

Emilio Sacristán Rock; Salah Othman; Cesar A. González; Javier Pinzón Todd; Jazmin Aguado Sierra; Pedro Flores; Oscar Infante. "The use of impedance spectroscopy to assess intestinal mucosa injury in an ischemia-reperfusion model,".

**17 Title:** Gastrointestinal intraluminal spectroscopy to monitor splanchnic hypoperfusion and tissue damage

**Name of the conference:** SCCM's 33rd Critical Care Congress

**City:** Orlando, Florida, United States of America

**Date:** 02/2004

**End date:** 02/2004

**Organising institution:** Society of Critical Care Medicine    **Type of institution:** Associations and Groups

**City:** Mount Prospect, Illinois, United States of America

Emilio Sacristán Rock; Salah Othman; César A. González; Jazmin Aguado Sierra; Javier Pinzón Todd; Pedro Flores; Oscar Infante. "Gastrointestinal intraluminal spectroscopy to monitor splanchnic hypoperfusion and tissue damage".

### Other publishing activities

**1 Title or object:** Invited Peer Reviewer 2007-2013

**Type of event:** Reviewer activities

**Organising institution:** Engineering in Medicine and Biology Society,

**2 Title or object:** Invited Peer Reviewer 2008-2010

**Organising institution:** American Journal of Physiology

**3 Title or object:** Invited Peer Reviewer 2009-2013

**Organising institution:** Journal of Biomechanics

**4 Title or object:** Invited Peer Reviewer 2011

**Organising institution:** Progress in Biophysics and Molecular Biology

**5 Title or object:** Invited Peer Reviewer 2011-2013

**Organising institution:** Journal of Biomechanical Engineering

**6 Title or object:** Invited Peer Reviewer 2012

**Organising institution:** Journal of the Mechanical Behavior of Biomedical Materials

**7 Title or object:** Invited Peer Reviewer 2012

**Organising institution:** Physiological Society

**8 Title or object:** Invited Peer Reviewer 2012-2013

**Organising institution:** International Journal for Numerical Methods in Biomedical Engineering



**9** **Title or object:** Invited Peer Reviewer 2013  
**Organising institution:** Computers in Biology and Medicine

**10** **Title or object:** Invited Peer Reviewer 2013  
**Organising institution:** Medical and Biological Engineering and Computing Journal

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

### Scientific advisory committees, scientific societies

- 1** **Committee title:** The Physiological Society  
**Primary (UNESCO code):** 241100 - Human physiology  
**Institution which it depends on:** The Physiological Society  
**City:** London, United Kingdom  
**Start date:** 01/12/2005
- 2** **Committee title:** IEEE Women in Engineering  
**Primary (UNESCO code):** 330600 - Electrical technology and engineering  
**Institution which it depends on:** Institute of Electric **Type of institution:** Associations and Groups and Electronic Engineering  
**City:** United States of America  
**Start date:** 01/10/2004
- 3** **Committee title:** IEEE Engineering in Medicine and Biology Society  
**Primary (UNESCO code):** 330600 - Electrical technology and engineering  
**Secondary (UNESCO code):** 240600 - Biophysics  
**Institution which it depends on:** Institute of Electric **Type of institution:** Associations and Groups and Electronic Engineering  
**City:** United States of America  
**Start date:** 01/09/2000

## Other achievements

### Stays in public or private R&D&I centres

**institution:** Masonic Medical Research Laboratory **Type of institution:** Foundation  
**Faculty, institute or centre:** Cardiac Research Institute  
**City:** Utica, United States of America  
**Start date:** 17/11/2013, 5 days  
**End date:** 23/11/2013  
**Aims of the stay:** Collaboration  
**Provable tasks:** Establish research collaboration



## Grants and scholarships obtained

- 1** **Name of the grant:** Severo Ochoa Mobility Grant  
**Aims:** Collaboration  
**Conferring institution:** Barcelona Supercomputing Center **Type of institution:** Public Research Body  
**Conferral date:** 17/11/2013 **Duration of the grant:** 6 days  
**End date:** 23/11/2013  
**Name of institution:** Masonic Medical Research Laboratory  
**Faculty, institute or centre:** Cardiac Research Laboratory
- 2** **Name of the grant:** PhD studentship  
**Aims:** PhD studentship  
**Conferring institution:** Consejo Nacional de Ciencia y Tecnología **Type of institution:** Public Research Body  
**Conferral date:** 01/10/2003 **Duration of the grant:** 4 years - 3 months  
**End date:** 01/01/2008  
**Name of institution:** Imperial College London  
**Faculty, institute or centre:** Department of Bioengineering
- 3** **Name of the grant:** Studentship  
**Aims:** Living expenses top up  
**Conferring institution:** Innovamédica **Type of institution:** Business  
**Conferral date:** 01/10/2003 **Duration of the grant:** 4 years - 3 months  
**End date:** 01/01/2008  
**Name of institution:** Imperial College London
- 4** **Name of the grant:** Networks and mobility awards  
**Aims:** Travel Funds  
**Conferring institution:** Engineering and Physical Sciences Research Council **Type of institution:** Public Research Body  
**Conferral date:** 09/2007 **Duration of the grant:** 7 days  
**End date:** 09/2007  
**Name of institution:** Physiological Flow Network
- 5** **Name of the grant:** Travel Award  
**Aims:** Travel funds  
**Conferring institution:** The Royal Academy of Engineering **Type of institution:** Public Research Body  
**Conferral date:** 08/2007 **Duration of the grant:** 7 days  
**End date:** 08/2007
- 6** **Name of the grant:** Travel Grant  
**Aims:** Travel grant  
**Conferring institution:** Old Centralian's Trust **Type of institution:** Associations and Groups  
**Conferral date:** 05/2007 **Duration of the grant:** 7 days  
**End date:** 05/2007  
**Name of institution:** Imperial College London

- 7** **Name of the grant:** Networks and mobility awards  
**Aims:** Travel Funds  
**Conferring institution:** Engineering and Physical Sciences Research Council  
**Conferral date:** 04/2007  
**End date:** 04/2007  
**Name of institution:** Physiological Flow Network  
**Type of institution:** Public Research Body  
**Duration of the grant:** 7 days
- 8** **Name of the grant:** Travel Award  
**Aims:** Travel funds  
**Conferring institution:** The Royal Academy of Engineering  
**Conferral date:** 09/2006  
**End date:** 09/2006  
**Type of institution:** Public Research Body  
**Duration of the grant:** 7 days
- 9** **Name of the grant:** Travel Grant  
**Aims:** Travel grant  
**Conferring institution:** Old Centralian's Trust  
**Conferral date:** 07/2006  
**End date:** 07/2006  
**Name of institution:** Imperial College London  
**Type of institution:** Associations and Groups  
**Duration of the grant:** 7 days
- 10** **Name of the grant:** Networks and mobility awards  
**Aims:** Travel Funds  
**Conferring institution:** Engineering and Physical Sciences Research Council  
**Conferral date:** 09/2005  
**End date:** 09/2005  
**Name of institution:** Physiological Flow Network  
**Type of institution:** Public Research Body  
**Duration of the grant:** 7 days

### Recognitions, distinctions and awards received throughout the career

- 1** **Description:** 1st Prize at the 2012 International Science and Engineering Visualization Challenge  
**Conferring institution:** Science Magazine and the U.S. National Science Foundation  
**City:** United States of America  
**Conferral date:** 01/02/2013  
**Recognition linked:** <http://www.sciencemag.org/content/339/6119/518.full>  
**Type of institution:** Administrative Body of the National Health System
- 2** **Description:** Poster Competition 1st prize winner  
**Conferring institution:** First Symposium of the Cardiovascular Technology Network  
**City:** London, United Kingdom  
**Conferral date:** 2005  
**Type of institution:** Associations and Groups