



Brais Cancela Barizo

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Brais Cancela Barizo received his B.S. (2009) and Ph.D. (2015) degrees in Computer Science from the University of A Coruña (Spain). He is a member of the LIDIA (Laboratory for Research and Development in Artificial Intelligence) from the same university since 2017. During his predoctoral period, he did a research stay for 3 months in the University of Queen Mary (London, UK), under the supervision of Dr. Shaogang Gong. The work developed during this stay was condensed into a conference paper in the BMVC venue. His PhD thesis was finally defended in June 2015. It was entitled “Understanding Target Trajectory Behavior: A Dynamic Scene Modeling Approach”. His PhD thesis was also awarded as Doctorate Extraordinary Award by University of A Coruña.

After finishing his PhD thesis, Dr. Cancela started to work in business intelligence in the private sector. After a short period of time, in 2016 he was hired as teacher assistant by the University of Barcelona, where he worked closely under the supervision of Dr. Petia Radeva. During this period, Dr. Cancela gained invaluable experience in both machine and deep learning techniques, which are the basis of this project.

From July 2017 to 2019, Dr. Cancela received a postdoctoral fellowship from the Xunta de Galicia, and because of that he was a visiting researcher in the Institute for Systems and Computer Engineering, Technology and Science (INESC TEC) in Porto (Portugal), under the supervision of Prof. Dr. João Gama. As a result of this collaboration, 1 journal paper and 3 conference papers were published, one of them granted with the Best Paper Award at the DEEPL Workshop at CAEPIA 2018. This collaboration is still ongoing. After two years at the INESC TEC, Dr. Cancela returned to the University of A Coruña as a postdoc researcher.

To sum up, he has published 12 journal papers (7 Q1, 4 Q2 and 1 Q4 in the JCR ranking) like TPAMI and Pattern Recognition. He has also submitted 20 conference papers, including prestigious venues like the CVPR and the ICCV, denoted by class 1 in the GII-GRIN-SCIE conference ranking. Moreover, he co-authored 1 book chapter. His h and i10 index are 8 and 7, respectively.

Regarding his organizational skills, Dr. Cancela was a member of the Senior Program Committee at the prestigious AAAI-2019 Conference. More than 7000 works were submitted to this class 1 conference (GII-GRIN-SCIE Conference Ranking) to be reviewed. He was also a member of the Program Committee in other class 1 conferences like IJCAI, AAAI, NIPS and ICLR.



He participates or has participated in several research projects, some of them funded by the Spanish Ministry of Economy and Competitiveness (5), and by Xunta de Galicia (6). He also has participated in 13 contracts with private companies. He is currently the Principal Investigator of a project funded by the Spanish Ministry of Economy and Competitiveness, focused on the creation of ethic and explainable deep learning algorithms.

General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Al tratarse de la rama de Computación, huelga hacer una aclaración inicial. Para publicar un trabajo en un congreso nunca se pide un resumen, o una pequeña introducción al problema. Al igual que en las revistas, se exige presentar un artículo científico completo. Por tanto, las revisiones se rigen del mismo modo que los artículos de revista. Existen congresos con una aceptación mayor que las revistas propias del campo, tales como el CVPR o el ICCV. Pese a no aparecer en el índice JCR, sí aparecen en el índice de Scopus, así como en el Google Ranking. Por poner un ejemplo, el CVPR ocupa la posición 5 de todas las revistas indexadas, con independencia del campo al que se adscriban, estando por encima de las mejores revistas del campo de Computer Vision and Pattern Recognition, como IJCV o PAMI. Debido a esto, toda publicación que tiene un índice de impacto en SJR ha sido incluida dentro del apartado de publicaciones.

Todas las publicaciones, así como su número de citas pueden ser vistas en el siguiente enlace de Google Scholar:

<https://scholar.google.es/citations?user=kFjVIJIAAAAJ&hl=es>

Brais Cancela Barizo

Surname(s): **Cancela Barizo**
Name: **Brais**
ORCID: **0000-0002-2295-4142**
ScopusID: **36975028400**
ResearcherID: **M-7669-2019**
Contact aut. region/reg.: **Galicia**
Personal web page: **<https://scholar.google.es/citations?user=kFjVIJIAAAAJ&hl=es>**

Current professional situation

Employing entity: Universidade da Coruña **Type of entity:** University
Department: Facultad de Informática
Professional category: Titular de Universidad
City employing entity: A Coruña, Galicia, Spain
Phone: (+34) 981167000 **Fax:** (+34) 981167160 **Email:** brais.cancela@udc.es
Start date: 04/11/2022
Type of contract: Civil servant **Dedication regime:** Full time
Performed tasks: Contratado Interino de sustitución P6

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidade da Coruña	Ayudante Doctor	02/02/2022
2	Universidade da Coruña	Contratado a cargo de proyecto	01/03/2021
3	Universidade da Coruña	Interino de sustitución P6	01/01/2021
4	Universidade da Coruña	Contratado Postdoc (programa I2C)	28/07/2017
5	Universitat de Barcelona	Ivestigador Postdoctoral	13/02/2017
6	MN Program Holding	Business Intelligence Analyst	04/05/2016
7	CITIC	Contratado Postdoc	01/11/2015
8	Centro de Investigación en Tecnologías de la Información y las Comunicaciones (CITIC)	9	04/05/2015
9	FUNDACION PROFESOR NOVOA SANTOS	1	01/11/2014
10	Universidade da Coruña	Contratado Predoc (programa I2C)	01/11/2011
11	Universidade da Coruña	1	01/06/2011
12	Universidade da Coruña	1	01/12/2009

- 1** **Employing entity:** Universidade da Coruña **Type of entity:** University
Department: Ciencias de la computación y tecnologías de la información, Facultade de Informática
City employing entity: A Coruña, Galicia, Spain
Professional category: Ayudante Doctor

Start-End date: 02/02/2022 - 03/11/2022

Type of contract: Temporary

Dedication regime: Full time

- 2** **Employing entity:** Universidade da Coruña **Type of entity:** University
Department: CITIC Research Center
City employing entity: A Coruña, Galicia, Spain
Professional category: Contratado a cargo de proyecto
Start-End date: 01/03/2021 - 01/02/2022 **Duration:** 11 months
Type of contract: Temporary
Dedication regime: Part time
- 3** **Employing entity:** Universidade da Coruña **Type of entity:** University
Department: Ciencias de la computación y tecnologías de la información, Facultade de Informática
City employing entity: A Coruña, Galicia, Spain
Professional category: Interino de sustitución P6
Start-End date: 01/01/2021 - 01/02/2022 **Duration:** 1 year - 1 month
Type of contract: Temporary
Dedication regime: Part time
- 4** **Employing entity:** Universidade da Coruña **Type of entity:** University
City employing entity: A Coruña, Galicia, Spain
Professional category: Contratado Postdoc (programa I2C)
Start-End date: 28/07/2017 - 28/12/2020 **Duration:** 3 years - 6 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)
- 5** **Employing entity:** Universitat de Barcelona **Type of entity:** University
Professional category: Ivestigador Postdoctoral
Start-End date: 13/02/2017 - 30/06/2017 **Duration:** 4 months - 17 days
Type of contract: Temporary employment contract
Dedication regime: Full time
- 6** **Employing entity:** MN Program Holding **Type of entity:** Business
Professional category: Business Intelligence Analyst
Start-End date: 04/05/2016 - 31/10/2016 **Duration:** 6 months
Type of contract: Permanent employment contract
Dedication regime: Full time
- 7** **Employing entity:** CITIC
Professional category: Contratado Postdoc
Start-End date: 01/11/2015 - 31/12/2015 **Duration:** 2 months
Type of contract: Temporary employment contract
Dedication regime: Full time
- 8** **Employing entity:** Centro de Investigación en Tecnologías de la Información y las Comunicaciones (CITIC)
Professional category: 9 **Educational Management (Yes/No):** No
Start-End date: 04/05/2015 - 31/10/2015 **Duration:** 6 months
Type of contract: Temporary employment contract
Dedication regime: Full time



- 9** **Employing entity:** FUNDACION PROFESOR NOVOA SANTOS
Professional category: 1 **Educational Management (Yes/No):** No
Start-End date: 01/11/2014 - 30/04/2015 **Duration:** 6 months
Type of contract: Temporary employment contract
Dedication regime: Part time
- 10** **Employing entity:** Universidade da Coruña **Type of entity:** University
Professional category: Contratado Predoc (programa I2C)
Start-End date: 01/11/2011 - 31/10/2014 **Duration:** 3 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
- 11** **Employing entity:** Universidade da Coruña **Type of entity:** University
Professional category: 1
Start-End date: 01/06/2011 - 31/10/2011 **Duration:** 5 months
Type of contract: Temporary employment contract
- 12** **Employing entity:** Universidade da Coruña **Type of entity:** University
Department: Grupo VARPA, Departamento de Computación, Facultad de Informática
Professional category: 1 **Educational Management (Yes/No):** No
Start-End date: 01/12/2009 - 30/09/2010 **Duration:** 10 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Field of management activity: University



Education

University education

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

- 1 **University degree:** Máster
Name of qualification: Máster Universitario en Computación
Degree awarding entity: Universidade da Coruña **Type of entity:** University
Date of qualification: 28/07/2010
Average mark: Excellent
- 2 **University degree:** Máster
Name of qualification: Máster Universitario en Ingeniería Matemática
Degree awarding entity: Universidade da Coruña **Type of entity:** University
Date of qualification: 28/07/2010
Average mark: Excellent
- 3 **University degree:** Higher degree
Name of qualification: Ingeniería Infomática
Degree awarding entity: Universidade da Coruña **Type of entity:** University
Date of qualification: 10/08/2009
Average mark: Good

Doctorates

Doctorate programme: Doctor en Ciencias, Tecnología y Computación en Programa Oficial de Posgrado en ciencias, tecnología y computación
Degree awarding entity: Universidade da Coruña
Date of degree: 05/06/2015
European doctorate: Yes **Date of certificate:** 05/06/2015
Thesis title: Understanding Target Trajectory Behavior: A Dynamic Scene Modeling Approach
Obtained qualification: Sobresaliente Cum Laude
Special doctorate award: Yes

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

- 1 **Training title:** A Complete Reinforcement Learning System (Capstone)
Awarding entity: University of Alberta on Coursera
End date: 06/03/2022
- 2 **Training title:** Sample-based Learning Methods
Awarding entity: University of Alberta on Coursera
End date: 04/03/2022



- 3 Training title:** Prediction and Control with Function Approximation
Awarding entity: University of Alberta on Coursera
End date: 02/03/2022
- 4 Training title:** Fundamentals of Reinforcement Learning
Awarding entity: University of Alberta on Coursera
End date: 27/02/2022
- 5 Training title:** Natural Language Processing with Attention Models
Awarding entity: deeplearning.ai on Coursera
End date: 23/02/2022
- 6 Training title:** Natural Language Processing with Sequence Models
Awarding entity: deeplearning.ai on Coursera
End date: 18/02/2022
- 7 Training title:** Natural Language Processing with Probabilistic Models
Awarding entity: deeplearning.ai on Coursera
End date: 10/02/2022
- 8 Training title:** Natural Language Processing with Classification and Vector Spaces
Awarding entity: deeplearning.ai on Coursera
End date: 08/02/2022
- 9 Training title:** Build Better Generative Adversarial Networks (GANs)
Awarding entity: deeplearning.ai on Coursera
End date: 05/10/2020
- 10 Training title:** Build Basic Generative Adversarial Networks (GANs)
Awarding entity: deeplearning.ai on Coursera
End date: 03/10/2020
- 11 Training title:** Sequence Models
Awarding entity: deeplearning.ai on Coursera
End date: 09/02/2018
- 12 Training title:** Convolutional Neural Networks
Awarding entity: deeplearning.ai on Coursera
End date: 23/11/2017
- 13 Training title:** Structuring Machine Learning Projects
Awarding entity: deeplearning.ai on Coursera
End date: 21/11/2017
- 14 Training title:** Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
Awarding entity: deeplearning.ai on Coursera
End date: 20/11/2017



- 15** **Training title:** Neural Networks and Deep Learning
Awarding entity: deeplearning.ai on Coursera
End date: 18/11/2017
- 16** **Training title:** Machine Learning
Awarding entity: Stanford University on Coursera
End date: 01/11/2017
- 17** **Training title:** International Computer Vision Summer School
Awarding entity: University of Catania, University of Cambridge
Type of entity: University
End date: 07/2014
- 18** **Training title:** Certificate in Proficiency English (CPE)
Awarding entity: Cambridge ESOL
Type of entity: University
End date: 06/2013
- 19** **Training title:** AERFAI Summer School On Pattern Recognition In Multimodal Human Interaction
Awarding entity: Universidade de Vigo
Type of entity: University
End date: 06/2012
- 20** **Training title:** Certificate in Advanced English (CAE)
Awarding entity: Cambridge ESOL
Type of entity: University
End date: 12/2011
- 21** **Training title:** 7th Summer School for Advanced Studied on Biometrics for Secure Authentication: Forensics, Security and Remote Identification
Awarding entity: Università degli Studi di Sassari (Italia)
Type of entity: University
End date: 06/2010
- 22** **Training title:** Phytion: herramientas de software libre para el cálculo y la visualización científica
Awarding entity: Aula de Formación Informática, Universidade da Coruña
Type of entity: University
End date: 03/2009
Duration in hours: 20 hours
- 23** **Training title:** Portugués Elemental 1 por el Centro de Linguas da UDC
Awarding entity: Centro de Linguas, Universidade da Coruña
Type of entity: University
End date: 12/2008
Duration in hours: 30 hours
- 24** **Training title:** Desarrollo de aplicaciones web ASP.NET 2.0 con C- y Visual Studio .NET
Awarding entity: Aula de Formación Informática, Universidade da Coruña
Type of entity: University
End date: 01/2008
Duration in hours: 20 hours
- 25** **Training title:** Bases de datos: PostgreSQL
Awarding entity: Aula de Formación Informática, Universidade da Coruña
Type of entity: University
End date: 07/2007
Duration in hours: 20 hours



- 26 Training title:** Taller de iniciación a la fotografía digital. El proceso da imagen digital
Awarding entity: Aula de Formación Informática, Universidade da Coruña
End date: 01/2007
Type of entity: University
Duration in hours: 20 hours
- 27 Training title:** Servicios y aplicaciones de la red Internet
Awarding entity: Aula de Formación Informática, Universidade da Coruña
End date: 12/2006
Type of entity: University
Duration in hours: 20 hours
- 28 Training title:** Diseño Web avanzado y tratamiento de imágenes con Adobe Photoshop
Awarding entity: Aula de Formación Informática, Universidade da Coruña
End date: 11/2006
Type of entity: University
Duration in hours: 20 hours

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

- 1 Title of course/seminar:** Bases para la docencia en el medio virtual (2a edición)
Organising entity: Centro Universitario de Formación e Innovación Educativa, Universidade da Coruña
Type of entity: University
Duration in hours: 12 hours
End date: 30/04/2021
- 2 Title of course/seminar:** Orientación e tutorización no ensino superior
Organising entity: Centro Universitario de Formación e Innovación Educativa, Universidade da Coruña
Type of entity: University
Duration in hours: 12 hours
End date: 30/04/2021
- 3 Title of course/seminar:** Terminoloxía e lexislación sobre discapacidade no ensino superior
Organising entity: Centro Universitario de Formación e Innovación Educativa, Universidade da Coruña
Type of entity: University
Duration in hours: 16 hours
End date: 30/04/2021
- 4 Title of course/seminar:** Docencia y responsabilidad social y ambiental universitaria
Organising entity: Centro Universitario de Formación e Innovación Educativa, Universidade da Coruña
Type of entity: University
Duration in hours: 12 hours
End date: 31/03/2021
- 5 Title of course/seminar:** Aplicación de Moodle a una materia: nivel inicial
Organising entity: Centro Universitario de Formación e Innovación Educativa, Universidade da Coruña
Type of entity: University
Duration in hours: 16 hours
End date: 28/02/2021
- 6 Title of course/seminar:** Identidad digital y entornos personales de aprendizaje
Organising entity: Centro Universitario de Formación e Innovación Educativa, Universidade da Coruña
Type of entity: University

**Duration in hours:** 16 hours**End date:** 28/02/2021

- 7 Title of course/seminar:** Derechos de autoría y propiedad intelectual
Organising entity: Centro Universitario de Formación e Innovación Educativa, Universidade da Coruña
Type of entity: University
Duration in hours: 12 hours
End date: 30/11/2020

- 8 Title of course/seminar:** Sustentabilidad y ambientalización curricular en los campus universitarios: propuestas de intervención técnicas y educativas
Organising entity: Centro Universitario de Formación e Innovación Educativa, Universidade da Coruña
Type of entity: University
Duration in hours: 12 hours
End date: 03/2013

- 9 Title of course/seminar:** Pautas para mejorar las revistas y potenciar su inclusión en la Web of Science
Organising entity: Centro Universitario de Formación e Innovación Educativa, Universidade da Coruña
Type of entity: University
Duration in hours: 4 hours
End date: 05/2012

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Portuguese	C1	B2	B2	B1	B1
Gallegan	C1	C1	C1	C1	C1
English	C2	C2	C2	C2	C2

Teaching experience

General teaching experience

- 1 Name of the course:** Aprendizaje automático II
Type of programme: Engineering
Type of subject: Obligatory
University degree: Grado en Ingeniería y Ciencia de Datos
Start date: 09/2021
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 21
Entity: Universidade da Coruña
Faculty, institute or centre: Facultad de Informática
Type of teaching: Practical work (classroom-problems)
End date: 06/2022
Type of entity: University
- 2 Name of the course:** Aprendizaje automático III
Type of programme: Engineering
Type of subject: Obligatory
University degree: Grado en Ingeniería y Ciencia de Datos
Start date: 09/2021
Type of teaching: Practical work (classroom-problems)
End date: 06/2022



Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 21
Entity: Universidade da Coruña
Faculty, institute or centre: Facultad de Informática

Type of entity: University

3 Name of the course: Diseño y análisis de algoritmos
Type of programme: Engineering
Type of subject: Obligatory
University degree: Grado en Ingeniería y Ciencia de Datos
Start date: 09/2021
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 45
Entity: Universidade da Coruña
Faculty, institute or centre: Facultad de Informática

Type of teaching: Practical work (classroom-problems)

End date: 06/2022

Type of entity: University

4 Name of the course: Programación II
Type of programme: Engineering
Type of subject: Obligatory
University degree: Grado en Ingeniería Informática
Start date: 02/2021
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 68
Entity: Universidade da Coruña
Faculty, institute or centre: Facultad de Informática

Type of teaching: Practical work (classroom-problems)

End date: 06/2022

Type of entity: University

5 Type of teaching: Official teaching
Name of the course: Algoritmos
Type of programme: Engineering
Type of subject: Core
University degree: Grado en Ingeniería Informática
Start date: 09/2021
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 32
Entity: Universidade da Coruña
Faculty, institute or centre: Facultad de Informática

Type of teaching: Practical work (classroom-problems)

End date: 01/2022

Type of entity: University

6 Name of the course: Interfaces Hombre Máquina
Type of programme: Engineering
Type of subject: Obligatory
University degree: Grado en Ingeniería Informática
Start date: 09/2019
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 180
Entity: Universidade da Coruña
Faculty, institute or centre: Facultad de Informática

Type of teaching: Practical work (classroom-problems)

End date: 01/2022

Type of entity: University

7 Name of the course: Informática
Type of programme: Engineering
Type of subject: Obligatory
University degree: Grado en Automática
Start date: 02/2021

Type of teaching: Practical work (classroom-problems)

End date: 06/2021



Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 60

Entity: Universidade da Coruña

Faculty, institute or centre: Facultad de Automática

Type of entity: University

8 Name of the course: Sistemas Inteligentes

Type of programme: Engineering

Type of subject: Obligatory

University degree: Grado en Ingeniería Informática

Start date: 02/2021

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 43

Entity: Universidade da Coruña

Faculty, institute or centre: Facultad de Informática

Type of teaching: In person theory

End date: 06/2021

Type of entity: University

9 Name of the course: Deseño Software

Type of programme: Engineering

Type of subject: Obligatory

University degree: Grado en Ingeniería Informática

Start date: 09/2020

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 20

Entity: Universidade da Coruña

Faculty, institute or centre: Facultad de Informática

Type of teaching: Practical work (classroom-problems)

End date: 01/2021

Type of entity: University

10 Name of the course: Sistemas Intelixentes

Type of programme: Engineering

Type of subject: Obligatory

University degree: Grado en Ingeniería Informática

Start date: 02/2020

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 20

Entity: Universidade da Coruña

Faculty, institute or centre: Facultad de Informática

Type of teaching: Practical work (classroom-problems)

End date: 04/2020

Type of entity: University

11 Type of teaching: Official teaching

Name of the course: Programación Científica

Type of programme: Engineering

University degree: Grado en Matemáticas

Start date: 13/02/2017

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 30

Entity: Universitat de Barcelona

Faculty, institute or centre: Facultad de Matemáticas

Type of teaching: Practical work (classroom-problems)

End date: 06/2017

Type of entity: University

12 Type of teaching: Official teaching

Name of the course: Informática Básica

Type of programme: Diploma

Type of subject: Obligatory

University degree: Grado en Matemáticas

Start date: 02/2017

Type of teaching: Laboratory work

End date: 06/2017

**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 22,5**Entity:** Universitat de Barcelona**Type of entity:** University**13 Type of teaching:** Official teaching**Name of the course:** Informática Básica**Type of programme:** Engineering**Type of subject:** Obligatory**University degree:** Grado en Ingeniería Informática**Start date:** 10/2014**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 60**Entity:** Universidade da Coruña**Faculty, institute or centre:** Facultad de Informática**Type of teaching:** Practical work (classroom-problems)**End date:** 10/2014**Type of entity:** University**14 Type of teaching:** Official teaching**Name of the course:** Tecnologías de la información y la comunicación**Type of programme:** Diploma**Type of subject:** Obligatory**University degree:** Grado en Filología**Start date:** 09/2013**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 32**Entity:** Universidade da Coruña**Faculty, institute or centre:** Facultad de Filología**Type of teaching:** Practical work (classroom-problems)**End date:** 06/2014**Type of entity:** University**15 Type of teaching:** Official teaching**Name of the course:** Programación II**Type of programme:** Engineering**Type of subject:** Obligatory**University degree:** Grado en Ingeniería Informática**Start date:** 09/2013**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 1**Entity:** Universidade da Coruña**Faculty, institute or centre:** Facultad de Informática**Type of teaching:** Practical work (classroom-problems)**End date:** 06/2014**Type of entity:** University**16 Type of teaching:** Official teaching**Name of the course:** Visión Artificial**Type of programme:** Engineering**Type of subject:** Optional**University degree:** Grado en Ingeniería Informática**Start date:** 09/2013**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 20**Entity:** Universidade da Coruña**Faculty, institute or centre:** Facultad de Informática**Type of teaching:** Practical work (classroom-problems)**End date:** 06/2014**Type of entity:** University**17 Type of teaching:** Official teaching**Name of the course:** Concurrencia y paralelismo**Type of programme:** Engineering**Type of teaching:** Practical work (classroom-problems)



Type of subject: Obligatory
University degree: Grado en Ingeniería Informática
Start date: 09/2012
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 2
Entity: Universidade da Coruña
Faculty, institute or centre: Facultad de Informática

End date: 06/2013

Type of entity: University

18 **Type of teaching:** Official teaching
Name of the course: Paradigmas de Programación
Type of programme: Engineering
Type of subject: Core
University degree: Grado en Ingeniería Informática
Start date: 09/2012
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 20
Entity: Universidade da Coruña
Faculty, institute or centre: Facultad de Informática

Type of teaching: Practical work (classroom-problems)

End date: 01/2013

Type of entity: University

19 **Name of the course:** Interfaces Hombre Máquina
Type of programme: Engineering
Type of subject: Obligatory
University degree: Grado en Ingeniería Informática
Start date: 09/2012
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 32
Entity: Universidade da Coruña
Faculty, institute or centre: Facultad de Informática

Type of teaching: Practical work (classroom-problems)

End date: 01/2013

Type of entity: University

20 **Type of teaching:** Official teaching
Name of the course: Sistemas Expertos
Type of programme: Engineering
Type of subject: Optional
University degree: Ingeniería de caminos, canales y puertos
Start date: 2012
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 5
Entity: Universidade da Coruña
Faculty, institute or centre: Escuela de Caminos

Type of teaching: Practical work (classroom-problems)

End date: 2013

Type of entity: University

21 **Type of teaching:** Official teaching
Name of the course: Informática
Type of programme: Engineering
Type of subject: Core
University degree: Grado en Ingeniería Mecánica
Start date: 09/2012
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 8
Entity: Universidade da Coruña

Type of teaching: Practical work (classroom-problems)

End date: 10/2012



- 22** **Type of teaching:** Official teaching
Name of the course: Sistemas Operativos
Type of programme: Engineering **Type of teaching:** Practical work (classroom-problems)
Type of subject: Core
University degree: Grado en Ingeniería Informática
Start date: 02/2012 **End date:** 04/2012
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 40
Entity: Universidade da Coruña **Type of entity:** University
Faculty, institute or centre: Facultad de Informática
- 23** **Type of teaching:** Official teaching
Name of the course: Algoritmos
Type of programme: Engineering **Type of teaching:** Practical work (classroom-problems)
Type of subject: Core
University degree: Grado en Ingeniería Informática
Start date: 11/2011 **End date:** 01/2012
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 20
Entity: Universidade da Coruña **Type of entity:** University
Faculty, institute or centre: Facultad de Informática

Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Deep learning language models for music analysis and generation
Co-director of thesis: Carlos Eiras Franco
Entity: Universidade de A Coruña **Type of entity:** University
Student: Daniel Quintillán Quintillán
Date of reading: 04/07/2022
- 2** **Project title:** Una foto que conquiste a todos: cómo engañar a un sistema de recomendación basado en imágenes
Type of project: Proyecto Fin de Máster
Co-director of thesis: Beatriz Remeseiro López
Entity: Universidad Internacional Menéndez Pelayo **Type of entity:** University
City of entity: Spain
Student: Pinar Sanz Sacristán
Date of reading: 20/09/2021
- 3** **Project title:** Aprendizaje profunda por refuerzo para clasificación de imágenes
Co-director of thesis: Carlos Eiras Franco
Entity: Universidade de A Coruña **Type of entity:** University
Student: Jorge Núñez Rivera
Date of reading: 12/07/2021
- 4** **Project title:** Métricas para determinar la dificultad de sabotear una Red Neuronal Convolucional
Co-director of thesis: Verónica Bolón Canedo
Entity: Universidade de A Coruña **Type of entity:** University
Student: María Taboada Pena
Date of reading: 02/03/2021

- 5** **Project title:** EAGLeNet - A Deep Multi-Task Learning CNN for Emotion, Age and Gender Recognition
Type of project: Proyecto Fin de Máster
Co-director of thesis: João Gama
Entity: Universidade do Porto **Type of entity:** University
City of entity: Porto, Portugal
Student: João Vieira
Date of reading: 27/11/2018
- 6** **Project title:** Practical Face Recognition: Building a Complete System Able to Identify Subjects in Real Time
Type of project: Proyecto Fin de Máster
Co-director of thesis: João Gama
Entity: Universidade do Porto **Type of entity:** University
City of entity: Porto, Portugal
Student: Bernardo Costa
Date of reading: 08/11/2018
- 7** **Project title:** Face detection from video streaming
Type of project: Proyecto Fin de Máster
Co-director of thesis: João Gama
Entity: Universidade do Porto **Type of entity:** University
City of entity: Porto, Portugal
Student: Jorge Renato Torres García
Date of reading: 22/06/2018
- 8** **Project title:** Using Deep Learning for Social Analysis in Egocentric Images
Entity: Universitat de Barcelona **Type of entity:** University
Student: Khalid Mahyou
Date of reading: 24/10/2017
- 9** **Project title:** Aplicació multiplataforma per a la detecció de logos
Entity: Universitat de Barcelona **Type of entity:** University
Student: Pol García Arenas
Date of reading: 28/06/2017
- 10** **Project title:** Detección de logos en imágenes mediante Redes Convolucionales
Entity: Universitat de Barcelona **Type of entity:** University
Student: Marc González
Date of reading: 28/06/2017
- 11** **Project title:** Creación de un nuevo sistema de reidentificación de personas basado en características
Entity: Universidade de A Coruña **Type of entity:** University
Student: Ismael Fernández Núñez
Date of reading: 18/02/2016
- 12** **Project title:** Predicción de trayectorias de objetos: enfoque orientado a objetivos
Entity: Universidade de A Coruña **Type of entity:** University
Student: Ignacio Fernández Pedrós
Date of reading: 22/01/2016



- 13** **Project title:** Aplicación web para la análisis de comportamiento humano en entornos concurridos
Entity: Universidade de A Coruña **Type of entity:** University
Student: Xoán Iago Suárez Canosa
Date of reading: 23/09/2015
- 14** **Project title:** Seguimiento de múltiples objetos en escenas concurridas en base a su comportamiento
Entity: Universidade de A Coruña **Type of entity:** University
Student: Benito González Martínez
Date of reading: 21/01/2015
- 15** **Project title:** Estudio e integración de información de alto nivel para el análisis de comportamiento en secuencias de vídeo
Entity: Universidade de A Coruña **Type of entity:** University
Student: Alberto Iglesias Figueroa
Date of reading: 25/09/2013

Scientific and technological experience

Scientific or technological activities

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

- 1** **Name of the project:** Aprendizaje Profundo Ético
Name principal investigator (PI, Co-PI....): Brais Cancela Barizo
Nº of researchers: 6
Funding entity or bodies:
 Ministerio de Economía y competitividad
Start-End date: 01/09/2022 - 31/08/2025 **Duration:** 3 years
Participating entity/entities: Universidade da Coruña
Total amount: 56.023 €
- 2** **Name of the project:** Axuda para a Consolidación e Estruturación de Unidades de Investigación Competitivas do Sistema Universitario de Galicia. Modalidade: Grupos de Referencia Competitivos
City of entity: Galicia, Spain
Name principal investigator (PI, Co-PI....): Amparo Alonso Betanzos
Nº of researchers: 21
Funding entity or bodies:
 Consellería de Cultura, Educación e Ordenación Universitaria, Xunta de Galicia **Type of entity:** State agency
City funding entity: Santiago, Galicia, Spain
Start-End date: 2022 - 2025
- 3** **Name of the project:** Algoritmos de selección de características verdes y rápidos
Name principal investigator (PI, Co-PI....): Verónica Bolón Canedo
Funding entity or bodies:
 Ministerio de Ciencia e Innovación **Type of entity:** Body, others

**Start-End date:** 01/12/2022 - 31/12/2023**Duration:** 2 years**Participating entity/entities:** Universidade da Coruña**Total amount:** 107.640 €

- 4** **Name of the project:** Ciencia e Ingeniería de datos para la evaluación, predicción poblacional y personalizada de la evolución de la enfermedad COVID-19

City of entity: Galicia, Spain**Name principal investigator (PI, Co-PI....):** Ricardo Cao Abad; Manuel González Penedo**Nº of researchers:** 21**Funding entity or bodies:**Consellería de Cultura, Educación e Ordenación
Universitaria, Xunta de Galicia**Type of entity:** State agency**City funding entity:** Santiago, Galicia, Spain**Start-End date:** 01/11/2020 - 31/12/2022**Total amount:** 311.137 €

- 5** **Name of the project:** Axuda para a Consolidación e Estruturación de Unidades de Investigación Competitivas do Sistema Universitario de Galicia. Modalidade: Grupos de Referencia Competitivos

City of entity: Galicia, Spain**Name principal investigator (PI, Co-PI....):** Amparo Alonso Betanzos**Nº of researchers:** 21**Funding entity or bodies:**Consellería de Cultura, Educación e Ordenación
Universitaria, Xunta de Galicia**Type of entity:** State agency**City funding entity:** Santiago, Galicia, Spain**Start-End date:** 2018 - 2021**Total amount:** 200.000 €

- 6** **Name of the project:** Axuda para a Consolidación e Estruturación de Unidades de Investigación Competitivas do Sistema Universitario de Galicia. Modalidade: Grupos de Referencia Competitivos

City of entity: Galicia, Spain**Name principal investigator (PI, Co-PI....):** Manuel González Penedo**Funding entity or bodies:**

Consellería de Educación, Universidade e Formación Profesional, Xunta de Galicia

Start-End date: 2016 - 2020**Total amount:** 1.750.000 €

- 7** **Name of the project:** Desarrollo de un sistema automático para el cálculo y visualización de propiedades anatómicas de la retina en SD-OCT y su correlación con análisis funcionales heterogéneos de la visión

Name principal investigator (PI, Co-PI....): Marcos Ortega Hortas**Nº of researchers:** 12**Funding entity or bodies:**

Ministerio de Ciencia e Innovación. Instituto de Salud Carlos III

Start-End date: 01/01/2015 - 31/12/2017**Duration:** 2 years**Participating entity/entities:** FUNDACION PROFESOR NOVOA SANTOS; Universidade da Coruña**Total amount:** 41.140 €

- 8** **Name of the project:** Laboratorio de Imagen Médica

Name principal investigator (PI, Co-PI....): Noelia Barreira Rodríguez**Nº of researchers:** 8

**Funding entity or bodies:**

Ministerio de Economía y competitividad

Start-End date: 01/01/2013 - 31/12/2015**Duration:** 2 years**Participating entity/entities:** Universidade da Coruña**Total amount:** 22.422,38 €

- 9** **Name of the project:** Axuda para a Consolidación e Estruturación de Unidades de Investigación Competitivas do Sistema Universitario de Galicia. Modalidade: Grupos con Potencial de Crecemento

City of entity: Galicia, Spain**Name principal investigator (PI, Co-PI....):** Manuel F. González Penedo**Nº of researchers:** 16**Funding entity or bodies:**Consellería de Cultura, Educación e Ordenación
Universitaria, Xunta de Galicia**Type of entity:** State agency**City funding entity:** Santiago, Galicia, Spain**Start-End date:** 25/10/2013 - 30/11/2015**Total amount:** 70.000 €

- 10** **Name of the project:** Axuda para a consolidación e estruturación de unidades de investigación competitivas do Sistema Universitario de Galicia para 2012: Agrupación estratéxica CITIC.

Name principal investigator (PI, Co-PI....): Bertha Guijarro Berdiñas**Funding entity or bodies:**Xunta de Galicia - Consellería de Cultura, Educación
e Ordenación Universitaria**Type of entity:** State agency**City funding entity:** Galicia, Spain**Start-End date:** 01/01/2012 - 31/12/2013**Participating entity/entities:** CITIC; Universidade da Coruña**Total amount:** 500.000 €

- 11** **Name of the project:** Aplicación telemática para la clasificación semiautomática del patrón interferencial de la capa lipídica superficial de la película lagrimal

Name principal investigator (PI, Co-PI....): Marta Penas**Nº of researchers:** 7**Funding entity or bodies:**

Ministerio de Ciencia e Innovación. Instituto de Salud Carlos III

Start-End date: 01/01/2011 - 31/12/2013**Duration:** 2 years - 11 months - 30 days**Participating entity/entities:** Universidade da Coruña**Total amount:** 42.350 €

- 12** **Name of the project:** Integración dun procedemento para o cálculo e seguemento temporal automático de variables prognóstico en retinografías nos SS. II. Sanitarios

Name principal investigator (PI, Co-PI....): Manuel F. González Penedo**Nº of researchers:** 10**Funding entity or bodies:**

Xunta de Galicia: Consellería de Economía e Industria.

Start-End date: 15/12/2010 - 31/10/2013**Duration:** 2 years - 10 months - 16 days**Participating entity/entities:** CITIC; Universidade da Coruña**Total amount:** 90.735 €

- 13** **Name of the project:** Desenvolvemento dunha Ferramenta Integral de Xestión da Vía Pública
City of entity: Galicia, Spain
Name principal investigator (PI, Co-PI....): Marcos Ortega Hortas
Nº of researchers: 9
Funding entity or bodies:
I MAS D3 Equipamientos Tecnológicos SL. **Type of entity:** State agency
Dirección Xeral de Investigación Desenvolvemento e Innovación. Consellería de Economía e Industria.
Xunta de Galicia.
City funding entity: Santiago, Galicia, Spain
Start-End date: 12/12/2011 - 30/06/2013
Total amount: 57.289,23 €
- 14** **Name of the project:** Axudas para a consolidación e estruturación de unidades de investigación competitivas do sistema galego de I+D+i
Name principal investigator (PI, Co-PI....): Manuel F. González Penedo
Nº of researchers: 13
Funding entity or bodies:
Xunta de Galicia: Consellería de Economía e Industria.
Start-End date: 01/01/2010 - 31/12/2010 **Duration:** 11 months - 30 days
Participating entity/entities: Universidade da Coruña
Total amount: 18.761 €
- 15** **Name of the project:** Axudas para a consolidación e estruturación de unidades de investigación competitivas do sistema galego de I+D+i - Modalidade de agrupacións estratéxicas
Name principal investigator (PI, Co-PI....): Víctor Manuel Gulías Fernández
Nº of researchers: 13
Funding entity or bodies:
Xunta de Galicia: Consellería de Economía e Industria.
Start-End date: 2008 - 2010
Participating entity/entities: Universidade da Coruña
Total amount: 625.000 €

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

- 1** **Name of the project:** Desarrollo del proyecto de investigación 'SMARTPORT. Puerto de A Coruña. Puerto inteligente. Subsistema de seguimiento y localización'
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Marcos Ortega Hortas
Funding entity or bodies:
Ágata Technology, S.L. **Type of entity:** Business
Start date: 01/07/2015 **Duration:** 1 year - 5 months
Total amount: 118.619,8 €
- 2** **Name of the project:** Desarrollo del proyecto de investigación 'SMARTVIPOORT. Puerto de Vigo. Subsistema de visión artificial y reconocimiento de patrones'
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Marcos Ortega Hortas
Funding entity or bodies:



Ágata Technology, S.L.

Type of entity: Business

Start date: 01/07/2015

Duration: 1 year - 5 months

Total amount: 82.478,62 €

- 3 Name of the project:** Desarrollo de una metodología de procesamiento de imagen para el análisis automático de capturas marisqueras

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Marcos Ortega Hortas

Participating entity/entities: INIBIC

Funding entity or bodies:

FUNDACION UNIVERSIDADE DA CORUÑA

City funding entity: Spain

Start date: 06/06/2014

Duration: 5 months - 25 days

Total amount: 18.150 €

- 4 Name of the project:** Proyección Informática para Entorno Educativo Superior

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Manuel F. González Penedo

Nº of researchers: 8

Funding entity or bodies:

Informática ELINFO S.L.

Type of entity: University

City funding entity: Santiago, Galicia, Spain

Start date: 01/07/2013

Duration: 1 year - 6 months

- 5 Name of the project:** Análisis automático de imágenes de fondo de ojo asociadas a diferentes patologías

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Manuel F. González Penedo

Nº of researchers: 14

Participating entity/entities: INIBIC

Funding entity or bodies:

Institut d'Assistència Sanitària

Type of entity: R&D Centre

City funding entity: Girona, Catalonia, Spain

Start date: 02/05/2013

Duration: 1 year - 7 months

- 6 Name of the project:** Licencias y Adquisición de Software Médico y Mejoras en el Entorno Clínico

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Manuel F. González Penedo

Nº of researchers: 8

Participating entity/entities: FEUGA; Universidade de A Coruña

Funding entity or bodies:

IDICHUS

Type of entity: R&D Centre

City funding entity: Santiago, Galicia, Spain

Start date: 01/12/2012

Duration: 10 months

- 7 Name of the project:** Contratación de servicios de mantenimiento del software de retina

Degree of contribution: Convenio de colaboración

Name principal investigator (PI, Co-PI....): Manuel F. González Penedo

Nº of researchers: 9



Participating entity/entities: CITIC; Universidade da Coruña

Funding entity or bodies:

IDICHUS

Start date: 20/12/2011

Duration: 11 months - 26 days

Total amount: 3.715,96 €

- 8** **Name of the project:** Licencias y adquisición de software para el proyecto de investigación RELACIÓN ENTRE MICROCIRCULACIÓN RETINIANA E MICROCIRCULACIÓN CEREBRAL

Degree of contribution: Convenio de colaboración

Name principal investigator (PI, Co-PI....): Marcos Ortega Hortas

Nº of researchers: 5

Participating entity/entities: CITIC; Universidade da Coruña

Funding entity or bodies:

IDICHUS

Start date: 01/10/2011

Duration: 2 years - 1 month - 29 days

Total amount: 9.565,22 €

- 9** **Name of the project:** Análisis y prospección de necesidades de material informático y multimedia en ámbitos novedosos para la empresa

Degree of contribution: Convenio de colaboración

Name principal investigator (PI, Co-PI....): Manuel F. González Penedo

Nº of researchers: 5

Participating entity/entities: Universidade da Coruña

Funding entity or bodies:

Informática ELINFO S.L.

Start date: 01/03/2011

Duration: 11 months - 21 days

- 10** **Name of the project:** Desarrollo de un sistema experto de detección automática del área macular

Degree of contribution: Convenio de colaboración

Name principal investigator (PI, Co-PI....): Manuel F. González Penedo

Nº of researchers: 11

Participating entity/entities: CITIC; Universidade da Coruña

Funding entity or bodies:

IDICHUS

Start date: 13/10/2010

Duration: 6 months

Total amount: 28.956,92 €

- 11** **Name of the project:** Actualizaciones Página Web de la Escuela Universitaria de Trabajo Social

Degree of contribution: Convenio de colaboración

Name principal investigator (PI, Co-PI....): Manuel F. González Penedo

Nº of researchers: 9

Participating entity/entities: Universidade da Coruña

Funding entity or bodies:

Fundación Santiago Apóstol de Ciencias Sociales

Start date: 01/09/2010

Duration: 2 months - 11 days

Total amount: 3.000 €



12 **Name of the project:** Desarrollo de una aplicación vía web distribuida para el ámbito médico

Degree of contribution: Convenio de colaboración

Name principal investigator (PI, Co-PI....): Antonio Blanco Ferro

Nº of researchers: 5

Participating entity/entities: CITIC; Universidade da Coruña

Funding entity or bodies:

IDICHUS

Start date: 15/03/2010

Duration: 6 months

Total amount: 24.000 €

13 **Name of the project:** Sistema computacional automático para o estudo da microcirculación retiniana do hipertenso

Name principal investigator (PI, Co-PI....): Manuel F. González Penedo

Nº of researchers: 10

Participating entity/entities: CITIC; Universidade da Coruña

Funding entity or bodies:

IDICHUS

Start date: 02/01/2009

Duration: 2 years

Total amount: 18.000 €

Results

Industrial and intellectual property

Title registered industrial property: Registro de propiedad intelectual: herramienta para el cálculo del índice arterio-venoso

Inventors/authors/obtainers: Manuel González Penedo; Marcos Ortega Hortas; Noelia Barreira Rodríguez; Sonia González Vázquez; Jorge Novo Buján; Brais Cancela Barizo

Entity holder of rights: Universidade da Coruña

Nº of application: C-235-2013

Country of inscription: Spain

Conferral date: 08/07/2013

Operating aut.region/region: Spain

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Brais Cancela Barizo; Marcos Ortega Hortas; Manuel González Penedo. A Wavefront Marching Method for Solving the Eikonal Equation on Cartesian Grids. IEEE International Conference on Computer Vision (ICCV 2015). pp. 1832 - 1850. IEEE, 10/12/2015.

DOI: 10.1109/ICCV.2015.213

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 3

Impact source: SCOPUS

Impact index in year of publication: 1.893

Impact source: Google Scholar h5 index

Impact index in year of publication: 58

Relevant publication: Yes

Format: Journal

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

Corresponding author: Yes

Category: Computer Vision and Pattern Recognition

Journal in the top 25%: Yes

Category: Computer Vision and Pattern Recognition

- 2** Brais Cancela Barizo; Marcos Ortega Hortas; Manuel Francisco González Penedo. Multiple Human Tracking System for Unpredictable Trajectories. Machine Vision and Applications. 25 - 2, pp. 511 - 527. Springer, 2014. ISSN 0932-8092

DOI: 10.1007/s00138-013-0544-7

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 3

Impact source: ISI

Impact index in year of publication: 1.351

Position of publication: 113

Source of citations: Google Scholar

Relevant publication: Yes

Format: Journal

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

Corresponding author: Yes

Category: Electrical and Electronic Engineering

Journal in the top 25%: No

No. of journals in the cat.: 249

Citations: 2

- 3** Brais Cancela Barizo; Alberto Iglesias; Marcos Ortega Hortas; Manuel González Penedo. Unsupervised Trajectory Modelling using Temporal Information via Minimal Paths. IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2014). pp. 2553 - 2560. IEEE, 2014.

DOI: 10.1109/CVPR.2014.327

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 3

Impact source: Google Scholar h5 index

Impact index in year of publication: 128

Position of publication: 55

Format: Journal

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

Corresponding author: Yes

Category: Google Scholar Top 100 publications

Journal in the top 25%: Yes

**Impact source:** SCOPUS**Impact index in year of publication:** 4.199**Relevant publication:** Yes**Category:** Computer Vision and Pattern Recognition**Journal in the top 25%:** Yes

- 4** Brais Cancela Barizo; Marcos Ortega Hortas; Alba Fernández Arias; Manuel Francisco González Penedo. Hierarchical framework for robust and fast multiple-target tracking in surveillance scenarios. Expert Systems with Applications. 40 - 4, pp. 1116 - 1131. Elsevier, 2013. ISSN 0957-4174

DOI: 10.1016/j.eswa.2012.08.025**Type of production:** Scientific paper**Position of signature:** 1**Total no. authors:** 4**Impact source:** ISI**Impact index in year of publication:** 1.965**Position of publication:** 30**Source of citations:** Google Scholar**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE**Journal in the top 25%:** Yes**No. of journals in the cat.:** 121**Citations:** 7

- 5** Sonia González Vázquez; Brais Cancela Barizo; Noelia Barreira Rodríguez; Manuel Francisco González Penedo; María Rodríguez Blanco; Marta Pena Seijo; Gabriel Coll de Tuero; María Antonia Barceló Rado; Marc Saez. Improving retinal artery and vein classification by means of a minimal path approach. Machine Vision and Applications. 24 - 5, pp. 919 - 930. Springer, 2013. ISSN 0932-8092

DOI: 10.1007/s00138-012-0442-4**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 5**Impact source:** ISI**Impact index in year of publication:** 1.444**Position of publication:** 9**Source of citations:** WOS**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - COMPUTER SCIENCE, CYBERNETICS**No. of journals in the cat.:** 24**Citations:** 15

- 6** Brais Cancela Barizo; Marcos Ortega Hortas; Manuel Francisco González Penedo; Jorge Novo Buján; Noelia Barreira Rodríguez. On the Use of a Minimal Path Approach for Target Trajectory Analysis. Pattern Recognition. 46 - 7, pp. 2015 - 2027. Elsevier, 2013. ISSN 0031-3203

DOI: 10.1016/j.patcog.2013.01.013**Type of production:** Scientific paper**Position of signature:** 1**Total no. authors:** 5**Impact source:** ISI**Impact index in year of publication:** 2.584**Position of publication:** 40**Source of citations:** Google Scholar**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC**Journal in the top 25%:** Yes**No. of journals in the cat.:** 247**Citations:** 1

Relevant publication: Yes

- 7** Elena Hernández Pereira; Óscar Fontenla Romero; Verónica Bolón Canedo; Brais Cancela Barizo; Bertha Guijarro Berdiñas; Amparo Alonso Betanzos. Machine learning techniques to predict different levels of hospital care of CoVid-19. Applied Intelligence. 2021. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0950705119306008?via%3Dihub>>.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 8** Brais Cancela; Amparo Alonso{-}Betanzos. Wavefront Marching Methods: a unified algorithm to solve Eikonal and static Hamilton-Jacobi equations. IEEE Transactions on Pattern Analysis and Machine Intelligence. 43 - 11, pp. 4177 - 4188. 2021. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0950705119306008?via%3Dihub>>.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
Impact source: ISI **Category:** COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Impact index in year of publication: 16,389 **Journal in the top 25%:** Yes
Position of publication: 1 **No. of journals in the cat.:** 139
- 9** Brais Cancela; Verónica Bolón{-}Canedo; Amparo Alonso{-}Betanzos; João Gama. A scalable saliency-based Feature selection method with instance level information. Knowledge-Based Systems. 192, 2020. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0950705119306008?via%3Dihub>>.
Type of production: Scientific paper **Format:** Journal
Position of signature: 1 **Corresponding author:** Yes
Total no. authors: 4 **Category:** COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Impact source: ISI **Journal in the top 25%:** Yes
Impact index in year of publication: 8,038 **No. of journals in the cat.:** 139
Position of publication: 16
- 10** Thiago Andrade; Brais Cancela; João Gama. Discovering locations and habits from human mobility data. Annals of Telecommunications. 75, pp. 505 - 521. 2020. Available on-line at: <<https://doi.org/10.1007/s12243-020-00807-x>>.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No **Category:** Science Edition - TELECOMMUNICATIONS
Impact source: ISI **Journal in the top 25%:** No
Impact index in year of publication: 1,444 **No. of journals in the cat.:** 91
Position of publication: 77
- 11** Thiago Andrade; Brais Cancela; João Gama. From Mobility Data to Habits and Common Pathways. Expert Systems. 37 - 6, 2020. Available on-line at: <<https://doi.org/10.1111/exsy.12627>>.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No **Category:** Science Edition - COMPUTER SCIENCE, THEORY & METHODS
Impact source: ISI **Journal in the top 25%:** No
Impact index in year of publication: 2,587 **No. of journals in the cat.:** 110
Position of publication: 31



- 12** B. Cancela; M. Ortega; A. Fernández; M.G. Penedo. Trajectory Similarity Measures using Minimal Paths. LNCS: ICIAP 2013. 8156, pp. 400 - 409. Berlín, Berlin(Germany): Springer Verlag, 2013.
Type of production: Scientific paper **Format:** Journal
Impact source: CORE
Impact index in year of publication: B
- 13** A. Fernández; M. Ortega; B. Cancela; M. G. Penedo; C. Vazquez; LM Gigirey. Automatic processing of audiometry sequences for objective screening of hearing loss. Expert Systems with Applications. 39, pp. 12683 - 12696. Elsevier, 2012. ISSN 0957-4174
DOI: 10.1016/j.eswa.2012.05.015
Type of production: Scientific paper **Format:** Journal
Position of signature: 3 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 5 **Corresponding author:** No
Impact source: ISI **Category:** Science Edition - OPERATIONS RESEARCH & MANAGEMENT SCIENCE
Impact index in year of publication: 1.854 **Journal in the top 25%:** Yes
Position of publication: 13 **No. of journals in the cat.:** 79
Source of citations: Google Scholar **Citations:** 4
- 14** B. Cancela; M. Ortega; A. Fernández; M. G. Penedo. Path analysis in multiple-target video sequences. LNCS: International Conference on Image Analysis and Processing (ICIAP). 6979, pp. 50 - 59. Berlín, Berlin(Germany): Springer Verlag, 2011.
Type of production: Scientific paper
Impact source: CORE
Impact index in year of publication: B
- 15** A. Fernández; M. Ortega; B. Cancela; M. G. Penedo. Contextual and Skin Color Region Information for Locating Human Body Parts. Journal of Computer and Information Technology. 1, pp. 1 - 16. 2011. ISSN 2161-7112
Type of production: Scientific paper **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Position of signature: 3 **Corresponding author:** No
Total no. authors: 5
Relevant publication: No
- 16** Verónica Bolón Canedo; Amparo Alonso Betanzos; Laura Morán Fernández; Brais Cancela Barizo. Feature Selection: From the Past to the Future. Advances in Selected Artificial Intelligence Areas. pp. 11 - 34. Springer, 2022. ISBN 978-3-030-93052-3
Type of production: Book chapter **Format:** Book
- 17** Noelia Barreira Rodríguez; Manuel Francisco González Penedo; Sonia González Vázquez; Lucía Ramos García; Brais Cancela Barizo; Ana González López. Automatic analysis of the microaneurysm turnover in a web based framework for retinal analysis. Image Analysis and Modeling in Ophthalmology. pp. 111 - 128. CRC Press, 2014. ISBN 978-1-4665-5930-1
Type of production: Book chapter **Format:** Book

Works submitted to national or international conferences

- 1** **Title of the work:** A Delayed Elastic-Net Approach for Performing Adversarial Attacks
Name of the conference: International Conference on Pattern Recognition (ICPR 2020)
Corresponding author: Yes
City of event: Milan, Italy
Date of event: 10/01/2021
End date: 15/01/2021
Organising entity: IAPR
Brais Cancela; Verónica Bolón Canedo; Amparo Alonso Betanzos. "International Conference on Pattern Recognition (ICPR 2020)".
- 2** **Title of the work:** Can Data Placement Be Effective for Neural Networks Classification Tasks? Introducing the Orthogonal Loss
Name of the conference: International Conference on Pattern Recognition (ICPR 2020)
Corresponding author: Yes
City of event: Milan, Italy
Date of event: 10/01/2021
End date: 15/01/2021
Organising entity: IAPR
Brais Cancela; Verónica Bolón Canedo; Amparo Alonso Betanzos. "International Conference on Pattern Recognition (ICPR 2020)".
- 3** **Title of the work:** Discovering Common Pathways Across Users' Habits in Mobility Data
Name of the conference: EPIA Conference on Artificial Intelligence
Corresponding author: No
City of event: Vila-Real, Portugal
Date of event: 2019
End date: 2019
Organising entity: EPIA
Type of contribution: Scientific book or monograph
Thiago Andrade; Brais Cancela; João Gama. "EPIA Conference on Artificial Intelligence". pp. 390 - 401. 2019.
- 4** **Title of the work:** Mining Human Mobility Data to Discover Locations and Habits
Name of the conference: ECML PKDD Workshops
Corresponding author: No
City of event: Wurzburg, Germany
Date of event: 2019
End date: 2019
Organising entity: ECML
Type of contribution: Scientific book or monograph
Thiago Andrade; Brais Cancela; João Gama. "ECML PKDD Workshops". pp. 410 - 421. 2019.
- 5** **Title of the work:** Uso de técnicas de Saliency para Selección de Características
Name of the conference: XVIII Conferencia de la Asociación Española para la Inteligencia Artificial (CAEPIA 2018)
Corresponding author: Yes
City of event: Granada, Spain

Date of event: 23/10/2018

End date: 26/10/2018

Organising entity: Asociación Española para la Inteligencia Artificial (AEPIA)

Brais Cancela Barizo; Verónica Bolón Canedo; Amparo Alonso Betanzos; João Gama. "Uso de técnicas de Saliency para Selección de Características".

- 6** **Title of the work:** Feature Selection for Big Visual Data: Overview and Challenges
Name of the conference: International Conference on Image Analysis and Recognition (ICIAR 2018)
City of event: Póvoa de Varzim, Portugal
Date of event: 27/06/2018
End date: 29/06/2018
Organising entity: Association for Image and Machine Intelligence (AIMI) **Type of entity:** Associations and Groups
Verónica Bolón Canedo; Beatriz Remeseiro López; Brais Cancela Barizo. "Feature Selection for Big Visual Data: Overview and Challenges".
- 7** **Title of the work:** Automatic Identification of Vessel Crossovers in Retinal Images
Name of the conference: International Conference on Machine Vision (ICMV 2014)
City of event: Milan, Italy
Date of event: 19/11/2014
End date: 21/11/2014
Luisa Sánchez Brea; Noelia Barreira Rodríguez; Manuel Francisco González Penedo; Brais Cancela Barizo. "Automatic Identification of Vessel Crossovers in Retinal Images".
- 8** **Title of the work:** Open-world Person Re-Identification by Multi-Label Assignment Inference
Name of the conference: British Machine Vision Conference, British Machine Vision Conference
City of event: Nottingham, United Kingdom
Date of event: 01/09/2014
End date: 05/09/2014
Brais Cancela Barizo; Timothy Hospedales; Shaogang Gong. "Open-world Person Re-Identification by Multi-Label Assignment Inference".
- 9** **Title of the work:** Automatic Eye Gesture Recognition in audiometries for patients with cognitive decline
Name of the conference: International Conference on Image Analysis and Recognition (ICIAR)
Type of event: Conference
Corresponding author: No
City of event: Póvoa de Varzim, Portugal
Date of event: 26/06/2013
End date: 28/06/2013
Type of contribution: Scientific paper
Alba Fernández Arias; Marcos Ortega Hortas; Manuel González Penedo; Brais Cancela Barizo; Luz Gigirey.
- 10** **Title of the work:** Path Analysis Using Directional Forces. A Practical Case: Traffic Scenes
Name of the conference: 6th Iberian Conference on Pattern Recognition and Image Analysis (IbPRIA 2013)
City of event: Madeira, Região Autónoma da Madeira, Portugal
Date of event: 05/06/2013
End date: 07/06/2013
Brais Cancela Barizo; Marcos Ortega Hortas; Manuel Francisco González Penedo. "Path Analysis Using Directional Forces. A Practical Case: Traffic Scenes".



- 11 Title of the work:** Human Detection and Tracking Under Complex Activities
Name of the conference: International Conference on Computer Vision Theory and Applications (VISAPP)
City of event: Barcelona, Catalonia, Spain
Date of event: 21/02/2013
End date: 24/02/2013
Brais Cancela Barizo; Marcos Ortega Hortas; Manuel Francisco González Penedo. "Human Detection and Tracking Under Complex Activities".
- 12 Title of the work:** Movement analysis for the assessment of hearing in patients with cognitive impairment: A preliminary study
Name of the conference: Computer Aided Systems Theory, Revised Selected Papers EUROCAST 2013
Corresponding author: No
City of event: Las Palmas, Canary Islands, Spain
Date of event: 10/02/2013
End date: 15/02/2013
Alba Fernández Arias; Marcos Ortega Hortas; Brais Cancela Barizo; Luz Gigirey.
- 13 Title of the work:** Automatic analysis of the patients conscious responses to the emission of auditory stimuli during the performance of an audiometry
Name of the conference: International Conference on Digital Image Computing: Techniques and Applications (DICTA)
Type of participation: 'Participatory - poster
City of event: Noosa, Australia
Date of event: 12/2011
A. Fernández; M. Ortega; M. G. Penedo; B. Cancela; LM Gigirey; C. Vazquez. "Automatic analysis of the patients conscious responses to the emission of auditory stimuli during the performance of an audiometry". 12/2011.
- 14 Title of the work:** Measuring response times to auditory stimuli during an audiometry
Name of the conference: 4th International Symposium on Applied Sciences in Biomedical and Communication Technologies (ISABEL 2011)
City of event: Barcelona, Spain
Date of event: 10/2011
A. Fernández; M. Ortega; B. Cancela; M. G. Penedo; C. Vazquez; LM Gigirey. "Measuring response times to auditory stimuli during an audiometry". 10/2011.
- 15 Title of the work:** Solving Multiple-Target Tracking Using Adaptive Filters
Name of the conference: International Conference on Image Analysis and Recognition (ICIAR)
Type of event: Conference
Corresponding author: Yes
City of event: Vancouver, Canada
Date of event: 22/06/2011
End date: 24/06/2011
Type of contribution: Scientific paper
Brais Cancela Barizo; Marcos Ortega Hortas; Manuel González Penedo; Alba Fernández Arias.
- 16 Title of the work:** Contextual and Skin Color Region Information for Face and Arms Location
Name of the conference: Computer Aided Systems Theory, Revised Selected Papers EUROCAST 2011
Corresponding author: No
City of event: Las Palmas, Canary Islands, Spain
Date of event: 06/02/2011
End date: 11/02/2011

Alba Fernández Arias; Marcos Ortega Hortas; Brais Cancela Barizo; Manuel González Penedo.

- 17 Title of the work:** On the Automatic Computation of the Arterio-Venous Ratio in Retinal Images: Using Minimal Paths for the Artery/Vein Classification
Name of the conference: International Conference on Digital Image Computing: Techniques and Applications (DICTA)
City of event: Sydney, Australia
Date of event: 12/2010
S. G. Vázquez; B. Cancela; N. Barreira; M. G. Penedo; M. Saez. "On the Automatic Computation of the Arterio-Venous Ratio in Retinal Images: Using Minimal Paths for the Artery/Vein Classification". 12/2010.
- 18 Title of the work:** Skin region analysis for face detection
Name of the conference: CEDI 2010-AERFAI 2010
City of event: Valencia, Spain
Date of event: 09/2010
A. Fernández; M. Ortega; C. Mariño; M. G. Penedo; B. Cancela. "Skin region analysis for face detection". 09/2010.

R&D management and participation in scientific committees

Organization of R&D activities

- 1 Title of the activity:** Program Committee (PC) del IJCAI-21
Type of activity: Congreso indexado (CORE A*) **Geographical area:** Non EU International
City of event: Canada
Convening entity: IJCAI
City convening entity: Montreal, Canada
Start date: 21/08/2021
- 2 Title of the activity:** Program Committee (PC) del AAAI-21
Type of activity: Congreso indexado (CORE A*) **Geographical area:** Non EU International
City of event: Canada
Convening entity: AAAI
City convening entity: Vancouver, Canada
Start date: 02/02/2021
- 3 Title of the activity:** Program Committee (PC) del NIPS-20
Type of activity: Congreso indexado (CORE A*) **Geographical area:** Non EU International
Convening entity: NIPS
City convening entity: Online, United States of America
Start date: 06/12/2020
- 4 Title of the activity:** Program Committee (PC) del KDD-20
Type of activity: Congreso indexado (CORE A*) **Geographical area:** Non EU International
City of event: San Diego, United States of America
Convening entity: SIGKDD
City convening entity: United States of America
Start date: 22/08/2020



- 5** **Title of the activity:** Program Committee (PC) del IJCNN-20
Type of activity: Congreso indexado (CORE A) **Geographical area:** European Union
City of event: Glasgow, United Kingdom
Convening entity: IJCNN
City convening entity: United Kingdom
Start date: 19/07/2020
- 6** **Title of the activity:** Program Committee (PC) del IJCAI-20
Type of activity: Congreso indexado (CORE A*) **Geographical area:** Non EU International
City of event: Yokohama, Japan
Convening entity: IJCAI
City convening entity: Japan
Start date: 11/07/2020
- 7** **Title of the activity:** Program Committee (PC) del ECAI-20
Type of activity: Congreso indexado (CORE B) **Geographical area:** European Union
City of event: Online, United Kingdom
Convening entity: ECAI
City convening entity: United Kingdom
Start date: 2020
- 8** **Title of the activity:** Program Committee (PC) del ECML-PKDD-19
Type of activity: Congreso indexado (CORE A) **Geographical area:** European Union
City of event: Wurzburg, Germany
Convening entity: ECML
City convening entity: Germany
Start date: 01/04/2019
- 9** **Title of the activity:** Program Committee (PC) del SIGKDD-19
Type of activity: Congreso indexado (CORE A*) **Geographical area:** Non EU International
City of event: Anchorage, United States of America
Convening entity: ACM Transactions
City convening entity: United States of America
Start date: 13/01/2019
- 10** **Title of the activity:** Program Committee (PC) del IJCAI-19
Type of activity: Congreso indexado (CORE A*) **Geographical area:** Non EU International
City of event: Macao, China
Convening entity: IJCAI
City convening entity: China
Start date: 28/12/2018
- 11** **Title of the activity:** Senior Program Committee (SPC) del AAAI-19
Type of activity: Congreso indexado (CORE A*) **Geographical area:** Non EU International
City of event: Honolulu, United States of America
Convening entity: AAAI **Type of entity:** Foundation
City convening entity: United States of America
Start date: 23/05/2018



- 12 Title of the activity:** Program Committee (PC) del ICIAR-18
Type of activity: Pc de la Special Session on Big Visual Data (CORE C) **Geographical area:** European Union
Convening entity: AIMI **Type of entity:** Associations and Groups
Start date: 17/01/2018

Evaluation and revision of R&D projects and articles

- 1 Name of the activity:** Revisor
Performed tasks: Revisión de artículos científicos
Entity where activity was carried out: PLOS One
Start date: 05/2018
- 2 Name of the activity:** Revisor
Performed tasks: Revisión de artículos científicos
Entity where activity was carried out: International Journal of Data Science and Analytics
Start date: 04/2018
- 3 Name of the activity:** Revisor
Performed tasks: Revisión de artículos científicos
Entity where activity was carried out: Computational Intelligence and Neuroscience
Start date: 12/2017
- 4 Name of the activity:** Revisor
Performed tasks: Revisión de artículos científicos
Entity where activity was carried out: IEEE Transactions on Intelligent Transportation Systems
Start date: 12/2017
- 5 Name of the activity:** Revisor
Performed tasks: Revisión de artículos científicos
Entity where activity was carried out: IEEE Transactions on Knowledge and Data Engineering
Start date: 09/2017
- 6 Name of the activity:** Revisor
Performed tasks: Revisión de artículos científicos
Entity where activity was carried out: IROS Conference
Start date: 05/2017
- 7 Name of the activity:** Revisor
Performed tasks: Revisión de artículos científicos
Entity where activity was carried out: IEEE Transactions on Circuits and Systems for Video Technology
Start date: 11/2015
- 8 Name of the activity:** Revisor
Performed tasks: Revisión de artículos científicos
Entity where activity was carried out: Machine Vision and Applications
Start date: 12/2013

**9 Name of the activity:** Revisor**Performed tasks:** Revisión de artículos científicos**Entity where activity was carried out:** Computer Vision and Image Understanding**Start date:** 04/2012**Type of entity:** Revista científica**Other achievements****Stays in public or private R&D centres****1 Entity:** Universidade de Porto**Faculty, institute or centre:** INESC TEC**City of entity:** Porto, Norte, Portugal**Start-End date:** 01/07/2017 - 30/06/2019**Goals of the stay:** Post-doctoral**Type of entity:** Technological Centre**Duration:** 2 years**2 Entity:** University of Queen Mary**City of entity:** Londres, Inner London, United Kingdom**Start-End date:** 01/09/2013 - 17/12/2013**Goals of the stay:** Doctorate**Type of entity:** University**Duration:** 3 months - 17 days**Obtained grants and scholarships****1 Name of the grant:** Beca posdoctoral Xunta de Galicia**Aims:** Post-doctoral**Awarding entity:** XUNTA DE GALICIA**Conferral date:** 01/07/2017**Duration:** 3 years**End date:** 30/06/2020**Entity where activity was carried out:** Universidade de Porto (Portugal)**Faculty, institute or centre:** INESC TEC**2 Name of the grant:** Beca predoctoral I2C**Aims:** Pre-doctoral**Awarding entity:** XUNTA DE GALICIA**Conferral date:** 01/11/2011**Duration:** 4 years - 10 months**End date:** 31/10/2014**Entity where activity was carried out:** Universidade da Coruña**3 Name of the grant:** Beca de Tercer Ciclo para Estancias Cortas**Aims:** Pre-doctoral**Awarding entity:** Universidade da Coruña**Conferral date:** 01/09/2013**Type of entity:** University**End date:** 30/11/2013**Duration:** 3 months**4 Name of the grant:** Beca de Tercer Ciclo**Aims:** Pre-doctoral**Awarding entity:** Universidade da Coruña**Conferral date:** 01/12/2009**Type of entity:** University**Duration:** 10 months



End date: 30/09/2010

Prizes, mentions and distinctions

- 1** **Description:** Mejor paper en el workshop DEEPL del CAEPIA 2018
Awarding entity: AEPIA **Type of entity:** Associations and Groups
City awarding entity: Granada
Conferral date: 2018
- 2** **Description:** Premio Extraordinario de Tesis de Doctorado
Awarding entity: Universidade da Coruña **Type of entity:** University
City awarding entity: A Coruña
Conferral date: 2016
- 3** **Description:** 1er Premio en el IX Concurso de Proyectos Tecnológicos. Utilización de modelos deformables para la localización del camino mínimo: Aplicación sobre imágenes oculares.
Awarding entity: Expourense **Type of entity:** Foundation
City awarding entity: Ourense, Galicia, Spain
Conferral date: 2009

Obtained accreditations/recognitions

- 1** **Description:** Profesor titular de universidad
Accrediting entity: Agencia Nacional de Evaluación **Type of entity:** -
de la Calidad y Acreditación
City accrediting entity: Spain
Date of recognition: 28/03/2022
- 2** **Description:** Acreditación Lector
Accrediting entity: Agència per a la Qualitat del **Type of entity:** State agency
Sistema Universitari de Catalunya (AQU)
City accrediting entity: Barcelona, Catalonia, Spain
Date of recognition: 03/2018
- 3** **Description:** Profesor ayudante doctor
Accrediting entity: Agencia Nacional de Evaluación **Type of entity:** Agencia Nacional
de la Calidad y Acreditación
City accrediting entity: Spain
Date of recognition: 06/10/2015
- 4** **Description:** Profesor contratado doctor
Accrediting entity: Agencia Nacional de Evaluación **Type of entity:** Agencia Nacional
de la Calidad y Acreditación
City accrediting entity: Spain
Date of recognition: 06/10/2015