



**Laura Quintana Quintana**

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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.

**L. Q. Quintana**, graduated from Biomedical Engineering bachelor's degree at the University Carlos III of Madrid, Spain, in June 2019. Afterwards, she graduated from Applied Electronics and Telecommunications Research master's Degree at the University of Las Palmas de Gran Canaria, Spain, in 2020. Since then, she has been conducting her research activity in the Integrated System Design Division, Research Institute for Applied Microelectronics of the University of Las Palmas de Gran Canaria, in the field of bioengineering.

In 2020, she started to work as a Researcher in the ITHaCA (IdenTificación Hiperespectral de tumores CerebrAles - ProID2017010164) and PLATINO (Plataforma HW/SW Distribuida para el Procesamiento Inteligente de Información sensorial Heterogénea en Aplicaciones de Supervisión de GRandes Espacios Naturales - TEC2017-86722-C4-1-R) projects. Her current research interest includes the use of hyperspectral imaging for different applications within the medical field, especially in hyperspectral histology for cancer analysis.



## Laura Quintana Quintana

Surname(s): **Quintana Quintana**  
 Name: **Laura**  
 ORCID: **0000-0003-1154-6490**  
 ResearcherID: **ADL-8156-2022**

### Current professional situation

**Employing entity:** Universidad de Las Palmas de Gran Canaria - Instituto Universitario de Microelectrónica Aplicada **Type of entity:** University  
**Professional category:** Investigador Predoctoral  
**Start date:** 01/09/2020  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others) **Dedication regime:** Full time

### Previous positions and activities

	Employing entity	Professional category	Start date
1	Instituto Universitario de Microelectrónica Aplicada	Becaria de Colaboración	01/11/2019
2	Universidad Carlos III de Madrid	Becaria de Investigación	01/10/2018
3	Universidad Carlos III de Madrid	Asistente de Laboratorio	01/10/2018
4	Universidad de las Palmas de Gran Canaria	Becaria de Investigación	01/05/2018

**1** **Employing entity:** Instituto Universitario de Microelectrónica Aplicada **Type of entity:** University Research Institute  
**Professional category:** Becaria de Colaboración  
**Start-End date:** 01/11/2019 - 30/07/2020  
**Performed tasks:** 1) Estudio de los algoritmos existentes en la literatura para el ensamblado de imágenes (stiching). 2) Estudio de la tecnología hiperespectral, su aplicación en el campo médico y el uso del sistema de microscopía hiperespectral disponible en el laboratorio. 3) Desarrollo de algoritmos de ensamblado de imágenes hiperespectrales mediante lenguaje de alto nivel (Matlab). 4) Aplicación de los algoritmos desarrollados para el ensamblado de imágenes microscópicas hiperespectrales de anatomía patológica para la detección automática de tumores a diferentes magnificaciones. 5) Validación de los resultados obtenidos frente a imágenes de patología digital convencional. 6) Participación en la redacción de una publicación científica para la diseminación de los resultados.

**2** **Employing entity:** Universidad Carlos III de Madrid **Type of entity:** University  
**Department:** Grupo de Instrumentación e Imagen Biomédica  
**Professional category:** Becaria de Investigación



**Start-End date:** 01/10/2018 - 30/06/2019

**Duration:** 9 months

**Performed tasks:** Etiquetado de datos de imagen biomédica necesarios para realizar el entrenamiento de alg oritmos de Deep learning.

**3** **Employing entity:** Universidad Carlos III de Madrid **Type of entity:** University

**Professional category:** Asistente de Laboratorio

**Start-End date:** 01/10/2018 - 01/11/2018

**Performed tasks:** Manejo y control de instrumentos básicos en los laboratorios de Materiales y Química, así como la preparación de las prácticas de laboratorio para otros estudiantes.

**4** **Employing entity:** Universidad de las Palmas de Gran Canaria **Type of entity:** University

**Department:** Departamento de Biomecánica

**Professional category:** Becaria de Investigación

**Start-End date:** 01/05/2018 - 31/07/2018

**Duration:** 3 months

**Performed tasks:** Colaboración en el desarrollo de un proyecto de investigación sobre las propiedades de los tendones usados como injerto en la reconstrucción del Ligamento Cruzado Anterior (LCA).



## Education

### University education

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

**1 University degree:** Higher degree

**Name of qualification:** Máster Universitario en Formación del Profesorado de Educación Secundaria Obligatoria y Bachillerato, Formación Profesional y Enseñanza de Idiomas

**City degree awarding entity:** Las Palmas de Gran Canaria, Canary Islands, Spain

**Degree awarding entity:** Universidad de las Palmas de Gran Canaria **Type of entity:** University

**Date of qualification:** 26/07/2023

**2 Name of qualification:** Máster en Electrónica y Telecomunicación Aplicadas

**Degree awarding entity:** Instituto Universitario de Microelectrónica Aplicada **Type of entity:** University Research Institute

**Date of qualification:** 30/07/2020

**Average mark:** Excellent

**Prize:** Matrícula de Honor en el Trabajo de Fin de Máster

**3 Name of qualification:** Grado en Ingeniería Biomedica

**Degree awarding entity:** Universidad Carlos III de Madrid **Type of entity:** University

**Date of qualification:** 01/06/2019

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

**1 Title of course/seminar:** Cómo plantear y planificar un proyecto de innovación educativa docente

**Organising entity:** Universidad de las Palmas de Gran Canaria **Type of entity:** University

**Duration in hours:** 12 hours

**Start-End date:** 25/03/2023 - 05/05/2023

**2 Title of course/seminar:** La Acreditación del PDI Laboral en Canarias

**Organising entity:** Universidad de las Palmas de Gran Canaria **Type of entity:** University

**Duration in hours:** 25 hours

**Start-End date:** 07/03/2023 - 30/03/2023

**3 Title of course/seminar:** Acreditación del PDI en el programa ACADEMIA de la ANECA

**Organising entity:** Universidad de las Palmas de Gran Canaria **Type of entity:** University

**Duration in hours:** 25 hours

**Start-End date:** 27/02/2023 - 24/03/2023

**4 Title of course/seminar:** Monitor/a de Actividades de Ocio y Tiempo Libre

**Goals of the course/seminar:** Conocer y asumir el planteamiento educativo, metodológico y pedagógico de la educación en el tiempo libre; dotar de los conocimientos y recursos técnicos y didácticos necesarios para dinamizar las actividades de un grupo, colectivo o movimiento infantil o juvenil y; conocer las nuevas expectativas y las alternativas existentes en el tiempo libre.

**Organising entity:** Dirección General de Juventud del Gobierno de Canarias

**Duration in hours:** 200 hours

**Start-End date:** 06/04/2021 - 13/07/2021

**Language skills**

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
German	A2	A2	A1	A1	A1
French	B1	B1	B1	B1	B1
English	C1	C1	C1	C2	C1

**Teaching experience****General teaching experience**

**Name of the course:** FÍSICA Y TECNOLOGÍA MÉDICAS

**Type of programme:** Bachelor's degree

**Type of teaching:** Laboratory work

**Type of subject:** Obligatory

**University degree:** Graduado o Graduada en Medicina

**End date:** 22/12/2022

**Type of hours/ ECTS credits:** Hours

**Hours/ECTS credits:** 60

**Entity:** Universidad de las Palmas de Gran Canaria

**Type of entity:** University

**Faculty, institute or centre:** Facultad de Medicina

**Department:** Departamento de Física

**Experience supervising doctoral thesis and/or final year projects**

**1 Project title:** Diseño y evaluación de técnicas de registro en imágenes hiperespectrales aplicado al diagnóstico del cáncer de mama

**Type of project:** TFG

**Co-director of thesis:** Gustavo Marrero Callicó; Samuel Ortega Sarmiento; Laura Quintana Quintana

**Entity:** Universidad de las Palmas de Gran Canaria

**Type of entity:** University

**Student:** Javier Santana Núñez

**Obtained qualification:** 10

**Date of reading:** 17/01/2023

**2 Project title:** Estudio de la vascularización cerebral mediante el uso de imágenes hiperespectrales

**Type of project:** TFG

**Co-director of thesis:** Gustavo Marrero Callicó; Himar Fabelo; Laura Quintana Quintana

**Entity:** Universidad de las Palmas de Gran Canaria

**Type of entity:** University



**Student:** Kenya Espino Gutierrez  
**Obtained qualification:** 8  
**Date of reading:** 15/09/2022

- 3** **Project title:** Comparativa De Sistemas De Adquisición Hiperespectral Microscópicos: Aplicación A Histología De Cáncer De Mama  
**Type of project:** TFG  
**Co-director of thesis:** Gustavo Marrero Callicó; Raquel León Martín; Laura Quintana Quintana  
**Entity:** Universidad de las Palmas de Gran Canaria **Type of entity:** University  
**Student:** Karen Lyn García Suárez  
**Obtained qualification:** 9.6  
**Date of reading:** 17/01/2022

### Educational or pedagogical publications, books, articles, etc.

- 1** Laura Quintana-Quintana; Antonio J. Rodríguez-Almeida; Raquel Leon; Unai Hernandez-Jayo; Jordi Cuadros; Javier García-Zubía; Francisco J. Balea-Fernández; Eduardo Quevedo. Enhancing ICT Education: A Comprehensive Study on the Implementation and Impact of Remote 3D Labs in High Secondary Education, **Name of the materials:** Innovation and Technologies for the Digital Transformation of Education – Europea and Latin American Perspectives  
**Format:** Chapters of books  
**Corresponding author:** Yes
- 2** Laura Quintana-Quintana; Antonio J. Rodríguez-Almeida; Raquel Leon; Unai Hernandez-Jayo; Jordi Cuadros; Javier García-Zubía; Francisco J. Balea-Fernández; Eduardo Quevedo. Exploring the Implementation of a Remote 3D Printing Lab for ICT Education, **Name of the materials:** VII Congreso Internacional sobre Aprendizaje, Innovación y Cooperación (CINAIC 2023)  
**Format:** Article(s)  
**Corresponding author:** Yes  
**DOI:** 10.26754/CINAIC.2023.0053

### Participation in conferences with talks focused on teacher training

**Name of the event:** Jornadas de Innovación Educativa 2022  
**Type of event:** Seminar  
**City of event:** Las Palmas de Gran Canaria, Canary Islands, Spain  
**Organising entity:** Universidad de las Palmas de Gran Canaria **Type of entity:** University

### Awards received for innovation in the field teaching

**Name of the prize:** Mención de Excelencia a Grupo de Innovación Educativa  
**Awarding entity:** University of Las Palmas de Gran Canaria **Type of entity:** University  
**City awarding entity:** Las Palmas de Gran Canaria, Canary Islands, Spain  
**Conferral date:** 25/04/2023



## Scientific and technological experience

### Research and development groups/teams

- 1 Name of the group:** IUMA: Diseño de Sistemas Electrónicos Integrados para el procesamiento de datos (IUMA-DSI)  
**Name of principal investigator:** Gustavo M. Callicó      **Number of members in the group:** 21  
**City of group:** Las Palmas de Gran Canaria, Canary Islands, Spain  
**Affiliation entity:** Universidad de las Palmas de Gran Canaria      **Type of entity:** University  
**Number of directed thesis:** 24  
**Start date:** 01/01/2022
- 2 Name of the group:** IUMA: Sistemas de Información y Comunicaciones (IUMA)  
**Name of principal investigator:** Gustavo M. Callico      **Number of members in the group:** 25  
**Type of collaboration:** Co-authorship of projects and their development  
**City of group:** Las Palmas De Gran Canaria, Canary Islands, Spain  
**Affiliation entity:** Universidad de las Palmas de Gran Canaria      **Type of entity:** University  
**Identify key words:** Biological engineering  
**Start date:** 01/09/2019      **Duration:** 2 years - 4 months
- 3 Name of the group:** Grupo de Instrumentación e Imagen Biomédica (BiiG)  
**Type of collaboration:** Co-authorship of projects and their development  
**Affiliation entity:** Universidad Carlos III de Madrid      **Type of entity:** University  
**Identify key words:** Biological engineering; Image processing  
**Start date:** 01/10/2018

### Scientific or technological activities

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

- 1 Name of the project:** 3D Decision Support Tool for Brain Tumor Surgery (STRATUM)  
**Type of project:** Research and development, including transfer      **Geographical area:** European Union  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Entity where project took place:** Universidad de las Palmas de Gran Canaria      **Type of entity:** University  
**City of entity:** Las Palmas de Gran Canaria, Canary Islands, Spain  
**Name principal investigator (PI, Co-PI....):** Gustavo M. Callico  
**Nº of researchers:** 12  
**Type of participation:** Team member  
**Name of the programme:** HORIZON-HLTH-2023-TOOL-05  
**Code according to the funding entity:** 101137416  
**Start-End date:** 01/12/2023 - 30/11/2028      **Duration:** 5 years  
**Total amount:** 10.714.691,25 €      **Sub-project amount:** 1.370.375 €





- 2** **Name of the project:** WARIFA (Watching the risk factors: Artificial intelligence and the personalized prevention and management of chronic conditions) – Gran Agreement: 101017385  
**Type of project:** Research and development, including transfer **Geographical area:** European Union  
**Entity where project took place:** Instituto Universitario de Microelectrónica Aplicada **Type of entity:** University Research Institute  
**City of entity:** Las Palmas de Gran Canaria, Canary Islands, Spain  
**N° of researchers:** 12  
**Funding entity or bodies:** Comisión Europea **Type of entity:** Comisión Europea  
**Start-End date:** 01/01/2020 - 31/12/2024 **Duration:** 4 years  
**Total amount:** 6.000.000 €
- 3** **Name of the project:** TALENT - Artificial Intelligence and High-Performance Systems Applied to E-Health and Smart Farming (PID2020-116417RB-C42)  
**Entity where project took place:** Universidad de las Palmas de Gran Canaria **Type of entity:** University  
**City of entity:** Las Palmas de Gran Canaria, Canary Islands, Spain  
**Name principal investigator (PI, Co-PI....):** Gustavo M. Callico; Sebastián Lopez  
**Funding entity or bodies:** Ministerio de Ciencia e Innovación. Universidades **Type of entity:** .  
**Start-End date:** 01/09/2021 - 01/09/2024 **Duration:** 3 years  
**Total amount:** 175.813 €
- 4** **Name of the project:** Uso de la imagen hiperespectral como factor pronóstico de la recaída debido a metástasis a distancia en cáncer de mama  
**Type of project:** Research and development, including transfer **Geographical area:** Regional  
**Degree of contribution:** Researcher  
**Entity where project took place:** Hospital de Tortosa Verge de la Cinta  
**City of entity:** Tortosa, Catalonia, Spain  
**Name principal investigator (PI, Co-PI....):** Esther Sauras Colón  
**N° of researchers:** 13 **Nª people/year:** 13  
**Type of participation:** Team member  
**Name of the programme:** Beques Dr.Ferran Convocatòria 2021  
**Code according to the funding entity:** FFPI21/BE01  
**Start-End date:** 01/01/2022 - 31/12/2022 **Duration:** 1 year  
**Total amount:** 3.000 €
- 5** **Name of the project:** PLATINO (Plataforma HW/SW distribuida para el Procesamiento Inteligente de Información Sensorial Heterogénea en Aplicaciones de Supervisión de Grandes Espacios Naturales - TEC2017-86722-C4-1-R)  
**Entity where project took place:** Instituto Universitario de Microelectrónica Aplicada **Type of entity:** University Research Institute  
**City of entity:** Las Palmas de Gran Canaria, Canary Islands, Spain  
**Name principal investigator (PI, Co-PI....):** Gustavo Marrero Callico  
**Funding entity or bodies:** Programa Estatal de Investigación, Desarrollo e Innovación Orientada a los Retos de Sociedad **Type of entity:** State agency  
**City funding entity:** Spain



**Start-End date:** 01/01/2018 - 31/12/2020

**Total amount:** 228.690 €

**6 Name of the project:** ITHACA (Identificación Hiperespectral de Tumores Cerebrales ProID2017010164)

**Entity where project took place:** Instituto Universitario de Microelectrónica Aplicada

**Type of entity:** University Research Institute

**City of entity:** Las Palmas de Gran Canaria, Canary Islands, Spain

**N° of researchers:** 23

**Funding entity or bodies:**

Agencia Canaria de Investigación, Innovación y Sociedad de la Información

**Type of entity:** State agency

**City funding entity:** Las Palmas de Gran Canaria, Canary Islands, Spain

**Start-End date:** 01/01/2018 - 30/09/2019

**Total amount:** 69.914,45 €

**7 Name of the project:** Plataforma computacional para la caracterización de la dinámica espacio-temporal de las protusiones celulares

**Entity where project took place:** Universidad Carlos III de Madrid

**Type of entity:** University

**City of entity:** Madrid, Canary Islands, Spain

**Funding entity or bodies:**

Fundación BBVA

**Type of entity:** Foundation

**Start-End date:** 15/09/2017 - 15/06/2019

## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1** Carlos Urbina Ortega; Quevedo; Laura Quintana-Quintana; Samuel Ortega; Himar Fabelo; Lucana Santos Falcón; Gustavo M. Callico. Towards Real-Time Hyperspectral Multi-Image Super-Resolution Reconstruction Applied to Histological Samples. Sensors. 23 - 4, pp. 1863. MDPI, 07/02/2023.

**DOI:** 10.3390/s23041863

**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:** 7

**Corresponding author:** No

- 2** Laura Quintana-Quintana; Samuel Ortega; Himar Fabelo; Francisco Balea-Fernández; Gustavo M. Callicó. Blur-Specific Image Quality Assessment of Microscopic Hyperspectral Images. Optics Express. Optica Publishing Group, 31/01/2023.

**DOI:** 10.1364/OE.476949

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 1

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

**Total no. authors:** 5



- 3** **Title of the work:** Stitching Algorithms for Automatic Assembly of Hyperspectral Histological Images. 01/07/2020.  
**Type of production:** Trabajo Fin de Máster **Format:** Scientific and technical document or report  
**Corresponding author:** Yes
- 4** **Title of the work:** Design and Optimization of the Graft Pretension Protocol for the Reconstruction of the Anterior Cruciate Ligament (ACL). 01/02/2019.  
**Type of production:** Trabajo Fin de Grado **Format:** Scientific and technical document or report  
**Corresponding author:** Yes

### Works submitted to national or international conferences

- 1** **Title of the work:** Analysing histology hyperspectral images: does tissue thickness matter?  
**Name of the conference:** SPIE Photonics Europe 2024  
**Type of event:** Conference  
**Corresponding author:** Yes  
**City of event:** Estrasburgo, France  
**Date of event:** 07/04/2024  
**End date:** 11/04/2024  
**Organising entity:** SPIE International Society for Optics and Photonics  
**Type of contribution:** Scientific paper  
Javier Santana Núñez; Laura Quintana Quintana; Himar Fabelo Gómez; Samuel Ortega Sarmiento; Esther Sauras Colón; Noèlia Gallardo Borràs; Daniel Mata Cano; Carlos López Pablo; Gustavo Iván Marrero Callicó. "Analysing histology hyperspectral images: does tissue thickness matter?".
- 2** **Title of the work:** Targeting Cancer Detection through Hyperspectral Microscopic Technology  
**Name of the conference:** I Congreso Internacional Multidisciplinar de Estudiantes de Doctorado (CIMED)  
**Corresponding author:** Yes  
**City of event:** La Laguna, Canary Islands, Spain  
**Date of event:** 22/04/2023  
**End date:** 24/04/2023  
**Organising entity:** Universidad de La Laguna **Type of entity:** University
- 3** **Title of the work:** YOLOX-based framework for nuclei detection on whole-slide histopathological RGB and hyperspectral images  
**Name of the conference:** SPIE Medical Imaging 2023  
**Date of event:** 19/02/2023  
**End date:** 23/02/2023  
**Organising entity:** International Society for Optics and Photonics  
**Type of contribution:** Scientific book or monograph  
Carlos Vega; Laura Quintana; Samuel Ortega; Himar Fabelo; Esther Sauras; Noèlia Gallardo; Daniel Mata; Marylene Lejeune; Carlos Lopez; Gustavo M. Callico. "Medical Imaging 2023: Digital and Computational Pathology". 12471, pp. 124711A - 124711A. SPIE, 2023. Available on-line at: <<https://doi.org/10.1117/12.2654036>>.
- 4** **Title of the work:** Hyperspectral imaging for in-vivo/ex-vivo tissue analysis of human brain cancer  
**Name of the conference:** SPIE Medical Imaging 2022  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster' **Reasons for participation:** Open access  
**Corresponding author:** No  
**City of event:** San Diego, United States of America  
**Date of event:** 20/02/2022



**End date:** 23/02/2022

**Organising entity:** SPIE

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Scientific paper

Raquel Leon; Sofía H. Gelado; Himar Fabelo; Samuel Ortega; Laura Quintana; Adam Szolna; Juan F. Piñeiro; Francisco Balea-Fernandez; Jesus Morera; Bernardino Clavo; Gustavo M. Callico. En: Proc. SPIE 12034, Medical Imaging 2022: Image-Guided Procedures, Robotic Interventions, and Modeling. 12034 - 29, (United States of America): SPIE, 04/04/2022. Available on-line at: <<https://www.spiedigitallibrary.org/conference-proceedings-of-spie/12034/1203429/Hyperspectral-imaging-for-in-vivo-ex-vivo-tissue-analysis-of/10.1117/12.2611420.short?SSO=1>>.

**DOI:** 10.1117/12.2611420

**5 Title of the work:** In the use of artificial intelligence and hyperspectral imaging in digital pathology for breast cancer cell identification

**Name of the conference:** SPIE Medical Imaging 2022

**Type of event:** Conference

**Geographical area:** Non EU International

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Open access

**Corresponding author:** Yes

**City of event:** San Diego, United States of America

**Date of event:** 20/02/2022

**End date:** 23/02/2022

**Organising entity:** SPIE

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Scientific paper

Laura Quintana; Samuel Ortega; Himar Fabelo; Francisco J. Balea-Fernández; Esther Sauras; Marylene Lejeune; Ramon Bosch; Carlos Lopez; Gustavo M. Callico. En: Proc. SPIE 12039, Medical Imaging 2022: Digital and Computational Pathology. 12039 - 0E, (United States of America): SPIE, 04/04/2022. Available on-line at: <<https://www.spiedigitallibrary.org/conference-proceedings-of-spie/12039/120390E/In-the-use-of-artificial-intelligence-and-hyperspectral-imaging-in/10.1117/12.2611419.short>>.

**DOI:** 10.1117/12.2611419

**6 Title of the work:** Instrumentation Evaluation for Hyperspectral Microscopy Targeting Enhanced Medical Histology

**Name of the conference:** 2021 XXXVI Conference on Design of Circuits and Integrated Systems (DCIS)

**Type of event:** Conference

**Type of participation:** Participatory - oral communication

**Corresponding author:** Yes

**City of event:** Vila do Conde, Portugal

**Date of event:** 24/11/2021

**End date:** 26/11/2021

**Organising entity:** University of Porto

**Type of entity:** University

**City organizing entity:** Porto, Portugal

**Type of contribution:** Scientific paper

Laura Quintana; Samuel Ortega; Raquel Leon; Himar Fabelo; Gustavo M. Callico; Carlos Lopez; Marylene Lejeune; Ramon Bosch. "Sensors Characterization for Hyperspectral Microscopy Targeting Enhanced Medical Histology". IEEE, 10/01/2022. ISSN 2640-5563, ISBN 978-1-6654-2116-4

**DOI:** DOI: 10.1109/DCIS53048.2021.9666188



- 7** **Title of the work:** Targeting Cancer Detection through Hyperspectral Microscopic Technology  
**Name of the conference:** 2021 XXXVI Conference on Design of Circuits and Integrated Systems (DCIS)  
**Type of event:** Conference  
**Type of participation:** 'Participatory - poster  
**Corresponding author:** Yes  
**City of event:** Vila do Conde, Portugal  
**Date of event:** 24/11/2021  
**End date:** 26/11/2021  
**Organising entity:** University of Porto **Type of entity:** University  
**City organizing entity:** Porto, Portugal  
 Laura Quintana; Gustavo M. Callico; Samuel Ortega. "TargetingCancer Detection through Hyperspectral Microscopic Technology". IEEE, 10/01/2022.
- 8** **Title of the work:** Blur-Specific No-Reference Image Quality Assesment For Microscopic Hyperspectral Image Focus Quantification  
**Name of the conference:** 2021 11th Workshop on Hyperspectral Imaging and Signal Processing: Evolution in Remote Sensing (WHISPERS)  
**Corresponding author:** Yes  
**City of event:** Amsterdam, Holland  
**Date of event:** 24/03/2021  
**End date:** 26/03/2021  
**Organising entity:** IEEE  
 Laura Quintana-Quintana; Samuel Ortega; Himar Fabelo; Gustavo M. Callico.

## R&D management and participation in scientific committees

### R&D management

- 1** **Name of the activity:** Science Festival: Pint of Science Las Palmas de Gran Canaria  
**Type of management:** Group management  
**Performed tasks:** Local Coordinator  
**Entity:** Pint of Science **Type of entity:** Associations and Groups  
**Start date:** 22/05/2023 **Duration:** 3 days
- 2** **Name of the activity:** Euromicro DSD/SEAA 2022 International Congress  
**Performed tasks:** Local committee member  
**City of entity:** Eindhoven, Zeeland, Holland  
**Entity:** Euromicro DSD/SEAA 2022  
**Start date:** 31/08/2022 **Duration:** 3 days  
**Geographical area:** European Union



## Evaluation and revision of R&D projects and articles

**Performed tasks:** Scientific Article Revisor

**Entity where activity was carried out:** IEEE Access

**Type of activity:** Review of articles in scientific or technological journals **Frequency of the activity:** 7

**Start date:** 01/09/2021

## Other achievements

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

- 1 **Entity:** Netherland Cancer Institute  
**Faculty, institute or centre:** Theo Ruers - Image guided surgery  
**City of entity:** Amsterdam, Holland  
**Start-End date:** 15/09/2023 - 19/12/2023 **Duration:** 3 months  
**Funding entity:** Agencia Canaria de Investigación, Innovación y Sociedad de la Información  
**Goals of the stay:** Doctorate
- 2 **Entity:** Universidad Politécnica de Madrid **Type of entity:** University  
**City of entity:** Madrid, Spain  
**Start-End date:** 01/06/2023 - 30/06/2023 **Duration:** 1 month  
**Goals of the stay:** Doctorate
- 3 **Entity:** Hospital de Tortosa Verge de la Cinta  
**City of entity:** Tortosa, Spain  
**Start-End date:** 16/05/2022 - 20/07/2022 **Duration:** 2 months  
**Goals of the stay:** Doctorate

### Obtained grants and scholarships

- 1 **Name of the grant:** Beca de Colaboración en Departamentos Universitarios  
**City awarding entity:** Spain  
**Aims:** Prestar Colaboración en un Grupo de Investigación  
**Awarding entity:** MINISTERIO DE EDUCACION Y CIENCIA  
**Amount of the grant:** 2.000 €  
**Conferral date:** 28/10/2019 **Duration:** 8 months  
**End date:** 30/06/2020  
**Entity where activity was carried out:** Instituto Universitario de Microelectrónica Aplicada  
**Faculty, institute or centre:** Universidad de las Palmas de Gran Canaria
- 2 **Name of the grant:** Programa Predoctoral De Formación Del Personal Investigador Dentro De Programas Oficiales De Doctorado En Canarias  
**Aims:** Pre-doctoral  
**Awarding entity:** Consejería de Economía, Industria, Comercio y Conocimiento (ACIISI)  
**Conferral date:** 11/05/2021 **Duration:** 4 years



**Entity where activity was carried out:** Universidad de las Palmas de Gran Canaria  
**Faculty, institute or centre:** Instituto Universitario de Microelectrónica Aplicada

- 3** **Name of the grant:** Beca de Colaboración en Proyecto "Anotación de Imágenes Biomédicas y Evaluación de la Calidad de las Anotaciones"  
**City awarding entity:** Madrid, Community of Madrid, Spain  
**Aims:** Colaboración  
**Awarding entity:** Universidad Carlos III de Madrid      **Type of entity:** University  
**Amount of the grant:** 400 €  
**Conferral date:** 13/05/2019      **Duration:** 1 month

### Prizes, mentions and distinctions

- 1** **Description:** Reconocimiento a la Productividad Científica de Grupos de Investigación de la ULPGC  
**Awarding entity:** Universidad de las Palmas de Gran Canaria      **Type of entity:** University  
**City awarding entity:** Las Palmas De Gran Canaria, Canary Islands, Spain  
**Conferral date:** 12/01/2023
- 2** **Description:** Premios Extraordinarios de Fin de Título  
**Awarding entity:** Universidad de las Palmas de Gran Canaria      **Type of entity:** University  
**City awarding entity:** Las Palmas De Gran Canaria, Canary Islands, Spain  
**Conferral date:** 14/02/2022
- 3** **Description:** Best Paper Award  
**Awarding entity:** XXXVI Conference on Design of Circuits and Integrated Systems      **Type of entity:** DCIS2021 General Chairs  
**City awarding entity:** Vila do Conde, Portugal  
**Conferral date:** 26/11/2021
- 4** **Description:** Participación en el Programa de Aceleración Reta-T Lab Turismo SMARTDEST, con el proyecto "iHotel"  
**Awarding entity:** FUNDACION CANARIA PARQUE CIENTIFICO TECNOLOGICO DE LA UNIVERSIDAD DE LAS PALMAS DE GRAN CANARIA  
**City awarding entity:** Las Palmas de Gran Canaria, Canary Islands, Spain  
**Conferral date:** 20/11/2020  
**Recognition linked:** Primer premio a el modelo de negocio más innovador
- 5** **Description:** Matricula de Honor en Trabajo Fin de Máster  
**Awarding entity:** Instituto Universitario de Microelectrónica Aplicada      **Type of entity:** University Research Institute  
**City awarding entity:** Las Palmas de Gran Canaria, Canary Islands, Spain  
**Conferral date:** 30/07/2020
- 6** **Description:** Francés B1  
**Awarding entity:** FUNDACION CANARIA UNIVERSITARIA DE LAS PALMAS  
**City awarding entity:** Las Palmas de Gran Canaria, Canary Islands, Spain  
**Conferral date:** 30/04/2020



- 7** **Description:** Participación en el equipo Iniciativas BAUMA, S.L.U. (Domingo Alonso) con el proyecto "Logística de Almacenes 4.0" en Demola Canarias  
**Awarding entity:** Agencia Canaria de Investigación, Innovación y Sociedad de la Información (ACIISI)  
**City awarding entity:** Las Palmas de Gran Canaria, Canary Islands, Spain  
**Conferral date:** 30/01/2020
- 8** **Description:** Cambridge English Level 2 Certificate in ESOL International (Advance)  
**Awarding entity:** Universidad de Cambridge      **Type of entity:** University  
**Conferral date:** 01/07/2018  
**Recognition linked:** Council of Europe Level C1
- 9** **Description:** Graduada con Matricula de Honor  
**Awarding entity:** IES Politecnico de Las Palmas  
**City awarding entity:** Las Palmas de Gran Canaria, Canary Islands, Spain  
**Conferral date:** 08/06/2015  
**Recognition linked:** Compensación económica por el primer año de estudios oficiales