



Julio Rubio García

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Julio Rubio García

Surname(s): **Rubio García**
Name: **Julio**
ORCID: **0000-0002-4282-3692**
Email: **julio.rubio@unirioja.es**

Current professional situation

Employing entity: Universidad de La Rioja
Professional category: Catedrático de Universidad
Start date: 17/08/2009
Type of contract: Civil servant



Teaching experience

Experience supervising doctoral thesis and/or final year projects

Project title: Processing biomedical images for the study of treatments related to neurodegenerative diseases

Type of project: Doctoral thesis

Co-director of thesis: Miguel Morales Fuciños

Entity: Universidad de La Rioja

Student: GADEA MATA MARTÍNEZ

Obtained qualification: Sobresaliente Cum Laude por Unanimidad

Date of reading: 15/09/2017

European doctorate: Yes

Quality recognition: No

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: Red EACA. Red Temática de Cálculo Simbólico, Álgebra Computacional y Aplicaciones

Type of project: Basic research (including archaeological digs, etc)

Geographical area: National

Nº of researchers: 20

Code according to the funding entity: RED2018-102709-T

Start-End date: 01/01/2020 - 31/12/2021

Duration: 2 years

Dedication regime: Full time

2 Name of the project: Álgebra computacional: formalización y aplicaciones a la fiabilidad de redes y al procesamiento de imágenes biomédicas

Type of project: Basic research (including archaeological digs, etc)

Geographical area: National

Name principal investigator (PI, Co-PI....): MARÍA VICO PASCUAL MARTÍNEZ LOSA; EDUARDO SÁENZ DE CABEZÓN IRIGARAY

Nº of researchers: 11

Code according to the funding entity: MTM2017-88804-P

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

Duration: 3 years

Dedication regime: Full time



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Miguel Daniel; Guidolin Andrea; Romero Ana; Rubio Julio. Effective spectral systems relating Serre and Eilenberg–Moore spectral sequences. *Journal of Symbolic Computation*. 114, pp. 122 - 148. Elsevier, 2023.
Type of production: Scientific paper **Format:** Journal
- 2** ROMERO, A.; JULIO RUBIO GARCÍA; FRANCIS SERGERAERT; Markus Szymik. A new Kenzo module for computing the eilenberg-moore spectral sequence. *ACM Communications in Computer Algebra*. 54/2, pp. 57 - 60. 2020. ISSN 1932-2240
DOI: <https://doi.org/10.1145/3427218.3427225>
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 4
- 3** ROMERO, A.; JULIO RUBIO GARCÍA; FRANCIS SERGERAERT. An implementation of effective homotopy of fibrations. *Journal of Symbolic Computation*. 94, pp. 149 - 172. (United States of America): 2019. ISSN 0747-7171
DOI: <https://doi.org/10.1016/j.jsc.2018.08.001>
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 3
- 4** GADEA MATA MARTÍNEZ; M. Radojevic; C. Fernández Lozano; I. Smal; N. Werij; Miguel Morales Fuciños; E. Meijering; JULIO RUBIO GARCÍA. Automated Neuron Detection in High-Content Fluorescence Microscopy Images Using Machine Learning. *Neuroinformatics*. 17/2, pp. 253 - 269. (United States of America): 2019. ISSN 1539-2791
DOI: <https://doi.org/10.1007/s12021-018-9399-4>
Type of production: Scientific paper **Format:** Journal
Position of signature: 8
Total no. authors: 8
- 5** BEATRIZ PÉREZ VALLE; JULIO RUBIO GARCÍA; CARLOS SÁENZ ADÁN. A Systematic Review of Provenance Systems. *Knowledge and Information Systems*. (Germany): 2018. ISSN 0219-1377
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 3
- 6** GADEA MATA MARTÍNEZ; Germán Cuesto; JÓNATAN HERAS VICENTE; Miguel Morales Fuciños; ROMERO, A.; JULIO RUBIO GARCÍA. SynapCountJ: A Validated Tool for Analyzing Synaptic Densities in Neurons. *Communications in Computer and Information Science*. 690, pp. 41 - 55. 01/03/2017.
DOI: [10.1007/978-3-319-54717-6_3](https://doi.org/10.1007/978-3-319-54717-6_3)
Type of production: Scientific paper **Format:** Journal
Position of signature: 6
Total no. authors: 6



- 7** LAUREANO LAMBAN PARDO; Francisco Jesús Martín Mateos; JULIO RUBIO GARCÍA; JOSÉ LUIS RUIZ REINA. Using abstract stobjs in ACL2 to compute matrix normal forms. Lecture Notes in Computer Science. 10499, pp. 354 - 370. 2017. ISSN 0302-9743
DOI: https://doi.org/10.1007/978-3-319-66107-0_23
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
Total no. authors: 4

Works submitted to national or international conferences

- 1** **Title of the work:** A Topological Approach for Semi-Supervised Learning
Name of the conference: EACA 2022
Date of event: 2022
Inés Adrián; Domínguez César; Heras Jónathan; Mata Gadea; Rubio Julio. "Actas EACA 2022".
- 2** **Title of the work:** Formalizing Alexander duality through BDDs
Name of the conference: ISAIM 2022
Date of event: 2022
Aransay Jesús; Lambán Laureano; Michaelis Julious; Rubio Julio.
- 3** **Title of the work:** New tools to analyse synaptic density and neuronal structures
Name of the conference: 1st NEUBIAS 2020 Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Portugal
Date of event: 15/02/2017
End date: 17/02/2017
City organizing entity: Lisboa, Portugal
GADEA MATA MARTÍNEZ; JÓNATAN HERAS VICENTE; Miguel Morales Fuciños; ROMERO, A.; JULIO RUBIO GARCÍA.