CURRÍCULUM VÍTAE NORMALIZADO

Luis Alberto Díaz García

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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.

I started my career in Physics studying at the University of Salamanca (USAL), in which I obtained my Physics degree in 2007 (Theoretical Physics), which was complemented with a Master's degree in Cosmology and Particle Physics (60 ECTS), also at the USAL. Then, I decided to explore the field of Astronomy and Astrophysics obtaining a Master's degree in Astrophysics (120 ECTS) at the University of La Laguna (ULL). In the beginning of 2011, I received a predoctoral research grant at the Centro de Estudios de Física del Cosmos de Aragón (CEFCA) under the supervision of Andrés Javier Cenarro Lagunas (current Director of CEFCA) to develop my doctoral thesis. In June 2017, I successfully defended and obtained the European PhD in Astrophysics with the distinction "Cum Laude" at the University Complutense de Madrid (UCM). I was working as postdoc researcher in Extragalactic Astrophysics at CEFCA within the project "Formación y evolución de galaxias en 4D con los cartografiados multifiltro J-PLUS y J-PAS desde el OAJ", AYA2015-66211-C2-1-P, in the GAlaxy Formation and Evolution group (GAFE). In July 2018, I started as postdoc at Academia Sinica Institute of Astronomy and Astrophysics (ASIAA) under the supervision of Proff. Keiichi Umetsu (Research fellow at ASIAA), complementing my formation and academic skills in clusters and weak lensing. In particular, I am working on magnification bias effects in clusters to trace the distribution of mass in clusters within the Hyper Suprime-Cam Subaru Strategic Program (HSC-SSP) collaboration.

In brief, my primary interest lies in the field of galaxy formation and evolution, in which I have a large experience studying stellar population properties of galaxies, as well as developing and automatizing methodologies to retrieve them from large astronomical surveys. Moreover, I am extending my expertise to the weak lensing topic to explore the distribution of mass within galaxy clusters via magnification bias effects. During my PhD, I put large efforts to develop statistical techniques (the code MUFFIT) to retrieve stellar population properties from large multi-filter surveys, such as ALHAMBRA, SHARDS, J-PAS, J-PLUS, COSMOS, etc. In addition, I am an active member in the multi-filter surveys ALHAMBRA (http://www.alhambrasurvey.com/), J-PLUS (http://j-plus.es/), J-PAS (http://www.j-pas.org/) and HSC-SSP (https://hsc.mtk.nao.ac.jp/ssp/). Within the ALHAMBRA collaboration, I have participated in multiple topics related to galaxy formation and evolution, such as merger fraction rates, 2-D analysis of stellar populations of spatially resolved galaxies, or luminosity functions. At present, I am also developing all the routines and techniques to determine magnification bias effects in clusters. This will allow to explore the distribution of mass in clusters using multi-filter photometric data, complementing other weak lensing studies more focused on the image distortion of background galaxies. In the future, we are planning to extend and complement all these studies in a common framework including data from the wide and ongoing multi-filter surveys J-PAS and HSC-SSP.

Research interests: Stellar populations of galaxies, magnification bias effects, formation and evolution of galaxies, weak lensing, galaxy clusters, mass profiles in clusters, methodologies and techniques to explore stellar population properties of galaxies, intermediate-redshift and local Universe, spectro-photometry, stellar population models.

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.

(2018/01/21 updated)	Total	Referred
Number of papers	33	13
Citations	460	307
h-index	8	8
g-index	21	14
e-index	18.5	14.4
i10-index	7	6
tori index	0.6	0.5
riq index	92	87
m-index	1.00	1.00

Luis Alberto Díaz García

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Current professional situation

Employing entity: Acedemia Sinica Institute of Astronomy and Astrophysics (ASIAA)
Professional category: Postdoctoral position
Start date: 07/2018
Type of contract: Grant-assisted student (pre or post-doctoral, others) **Dedication regime:** Full time
Primary (UNESCO code): 250000 - Earth and space sciences
Secondary (UNESCO code): 210000 - Astronomy & Astrophysics; 250000 - Earth and space sciences
Tertiary (UNESCO code): 210104 - Galaxies
Identify key words: Astronomy

Previous positions and activities

	Employing entity	Professional category	Start date
1	FUNDACION CENTRO DE ESTUDIOS DE FISICA DEL COSMOS DE ARAGON	Postdoctoral researcher	12/2017
2	FUNDACION CENTRO DE ESTUDIOS DE FISICA DEL COSMOS DE ARAGON	PhD student	01/2011

1 **Employing entity:** FUNDACION CENTRO DE ESTUDIOS DE FISICA DEL COSMOS DE ARAGON
Professional category: Postdoctoral researcher
Start-End date: 12/2017 - 06/2018 **Duration:** 6 months
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 250000 - Earth and space sciences
Secondary (UNESCO code): 210104 - Galaxies; 250000 - Earth and space sciences

2 **Employing entity:** FUNDACION CENTRO DE ESTUDIOS DE FISICA DEL COSMOS DE ARAGON
Professional category: PhD student
Start-End date: 01/2011 - 06/2016 **Duration:** 5 years - 6 months

Education

University education

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

1 **University degree:** Higher degree
Name of qualification: Master in Astrophysics
Degree awarding entity: Universidad de La Laguna **Type of entity:** University
Date of qualification: 01/07/2010

2 **University degree:** Higher degree
Name of qualification: Master in Cosmology and Particle Physics
Degree awarding entity: Universidad de Salamanca **Type of entity:** University
Date of qualification: 01/09/2008

3 **University degree:** Higher degree
Name of qualification: Degree in Physics (Specialization in Theoretical Physics)
Degree awarding entity: Universidad de Salamanca **Type of entity:** University
Date of qualification: 01/01/2008

Doctorates

Doctorate programme: PhD in Astrophysics (European Doctor, Cum Laude)
Degree awarding entity: Universidad Complutense de Madrid **Type of entity:** University
Date of degree: 12/06/2017

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	B1	B1	B1	B1	B1
Spanish	C2	C2	C2	C2	C2

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:** Plan Nacional I+D+I 2015: AYA2015-66211-C2-1-P Formación y Evolución de galaxias en 4D con los cartografiados multi-filtro J-PLUS y J-PAS desde el OAJ
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Entity where project took place: Fundación Centro de Estudios de Física del Cosmos de Aragón (CEFCA)
Name principal investigator (PI, Co-PI....): Javier Cenarro; Carlos López San Juan
Nº of researchers: 25
Funding entity or bodies:
MINECO FEDER

Type of participation: Temporary contract (6 months) using project funds
Name of the programme: AYA2015
Code according to the funding entity: AYA2015-66211-C2-1-P
Start-End date: 01/01/2016 - 31/12/2018
Total amount: 170.731 €
Dedication regime: Full time

2 **Name of the project:** Grupos de investigación de Aragón 2015: 'Formación y Evolución de Galaxias', referencia E103
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Entity where project took place: Fundación Centro de Estudios de Física del Cosmos de Aragón (CEFCA)
Name principal investigator (PI, Co-PI....): Carlos López San Juan
Nº of researchers: 21
Funding entity or bodies:
Gobierno de Aragón

Type of participation: Team member
Name of the programme: Grupos de investigación de Aragón 2015
Code according to the funding entity: E103
Start-End date: 01/01/2015 - 31/12/2015
Total amount: 8.224 €
Dedication regime: Full time

3 **Name of the project:** Plan Nacional I+D+I 2012: AYA2012-30789 Desarrollo y explotación científica del OAJ: Primera ciencia sobre evolución de galaxias y cosmología con grandes cartografiados
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Entity where project took place: Fundación Centro de Estudios de Física del Cosmos de Aragón (CEFCA)
Name principal investigator (PI, Co-PI....): Javier Cenarro
Nº of researchers: 15
Funding entity or bodies:

MINECO FEDER

Type of participation: Team member
Name of the programme: AYA2012
Code according to the funding entity: AYA2012-30789
Start-End date: 01/01/2013 - 31/12/2015
Total amount: 469.170 €
Dedication regime: Full time

4 **Name of the project:** Grupos de investigación de Aragón 2014: 'Formación y Evolución de Galaxias', referencia E103
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Entity where project took place: Fundación Centro de Estudios de Física del Cosmos de Aragón (CEFCA)
Name principal investigator (PI, Co-PI....): Carlos López San Juan
Nº of researchers: 19
Funding entity or bodies:
Gobierno de Aragón

Type of participation: Team member
Name of the programme: Grupos de investigación de Aragón 2014
Code according to the funding entity: E103
Start-End date: 01/01/2014 - 31/12/2014
Total amount: 8.220 €
Dedication regime: Full time

5 **Name of the project:** Grupos de investigación de Aragón 2013: 'Cosmología y Evolución de Galaxias', referencia E96
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Entity where project took place: Fundación Centro de Estudios de Física del Cosmos de Aragón (CEFCA)
Name principal investigator (PI, Co-PI....): Mariano Moles Villamate
Nº of researchers: 26
Funding entity or bodies:
Gobierno de Aragón

Type of participation: Team member
Name of the programme: Grupos de investigación de Aragón 2013
Code according to the funding entity: E96
Start-End date: 01/01/2013 - 31/12/2013
Total amount: 16.122,5 €
Dedication regime: Full time

6 **Name of the project:** Grupos de investigación de Aragón 2011: 'Cosmología y Evolución de Galaxias', referencia E96
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Entity where project took place: Fundación Centro de Estudios de Física del Cosmos de Aragón (CEFCA)
Name principal investigator (PI, Co-PI....): Mariano Moles Villamate
Nº of researchers: 12
Funding entity or bodies:
Gobierno de Aragón

Type of participation: Team member

Name of the programme: Grupos de investigación de Aragón 2011
Code according to the funding entity: E96
Start-End date: 01/01/2011 - 31/12/2011
Total amount: 5.862 €
Dedication regime: Full time

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

1 **Name of the project:** Javalambre Photometric Local Universe Survey (J-PLUS)
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Non EU International
Name principal investigator (PI, Co-PI....): Javier Cenarro; Carlos Hernández Monteagudo
Nº of researchers: 111
Funding entity or bodies:
FAPERJ

FINEP

Fondo de inversiones de Teruel

Gobierno de Aragón

Ministerio de economía, industria y competitividad

Ministério da Ciência e Tecnologia (Brasil):FASESP

Name of the programme: J-PLUS
Start date: 01/01/2010 **Duration:** 9 years - 11 months - 30 days

2 **Name of the project:** Javalambre Physics of the Accelerating Universe Astrophysical Survey (J-PAS)
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Non EU International
Name principal investigator (PI, Co-PI....): Renato Dupke
Nº of researchers: 218
Funding entity or bodies:
Araid

CSIC

FAPERJ

FINEP

Fondo de inversiones de Teruel

Gobierno de Aragón

Ministerio de economía, industria y competitividad

Ministério da Ciência e Tecnologia (Brasil):FASESP

Name of the programme: J-PAS
Start date: 01/01/2010 **Duration:** 15 years - 11 months - 30 days

3 **Name of the project:** Advanced Large, Homogeneous Area Medium Band Redshift Astronomical Survey (ALHAMBRA)
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National

Name principal investigator (PI, Co-PI....): Mariano Moles
Nº of researchers: 42
Funding entity or bodies:
Consejo Superior de Investigaciones Científicas

Fondo europeo desarrollo regional

Fundación Española para la Ciencia y la Tecnología

Gobierno de Aragón

Ministerio de economía, industria y competitividad

Name of the programme: ALHAMBRA
Start date: 01/01/2006 **Duration:** 8 years - 11 months - 30 days

4 **Name of the project:** Hyper Suprime Cam Subaru Strategic Program (HSC-SSP)
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Non EU International
Participating entity/entities: Academia Sinica Institute for Astronomy and Astrophysics in Taiwan (ASIAA); Kavli Institute for the Physics and Mathematics of the Universe (Kavli IPMU); National Astronomical Observatory of Japan (NAOJ); Princeton University; The High Energy Accelerator Research Organization (KEK); The University of Tokyo
Funding entity or bodies:
Academia Sinica Institute for Astronomy and Astrophysics in Taiwan (ASIAA)

High Energy Accelerator Research Organization (KEK)

Japan Science and Technology Agency (JST)

Kavli Institute for the Physics and Mathematics of the Universe (Kavli IPMU)

Ministry of Education, Culture, Sports, Science and Technology (MEXT)

National Astronomical Observatoy of Japan (NAOJ)

Princeton University

The Japan Society for the Promotion of Science (JSPS)

The Toray Science Foundation

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

1 Díaz-García L.A.; Cenarro A.J.; López-Sanjuan C.; Peralta de Arriba L.; Ferreras I.; Cerviño M.; Márquez I.; Masegosa J.; del Olmo A.; Perea J.Stellar populations of galaxies in the ALHAMBRA survey up to z~1. IV. Properties of quiescent galaxies on the stellar mass-size plane. ArXiv e-prints. pp. arXiv:1901.05983. 01/2019.
Type of production: Scientific paper **Format:** Journal

2 Viironen K., López-Sanjuan C., Hernández-Monteagudo C., Chaves-Montero J., Ascaso B., Bonoli S., Cr. High redshift galaxies in the ALHAMBRA survey. II. Strengthening the evidence of bright-end excess in UV luminosity functions at 2.5 ≤ z≤ 4.5 by PDF analysis. Astronomy and Astrophysics. : 614, pp. A129. 07/2018. Available on-line at: <http://adsabs.harvard.edu/abs/2018A%26A...614A.129V>.
Type of production: Scientific paper **Format:** Journal

3 López-Sanjuan C., Díaz-García L. A., Cenarro A. J., Fernández-Soto A., Viironen K., Molino A., Benítez. The ALHAMBRA survey: tight dependence of the optical mass-to-light ratio on galaxy colour up to z = 1.5. ArXiv e-prints. :, pp. arXiv:1805.03609. 05/2018. Available on-line at: <http://adsabs.harvard.edu/abs/2018arXiv180503609L Accepted in Astronomy and Astrophysics>.
Type of production: Scientific paper **Format:** Journal

4 San Roman I., Sánchez-Blázquez P., Cenarro A. J., Díaz-García L. A., López-Sanjuan C., Varela J., V. J-PLUS: 2-D analysis of the stellar population in NGC 5473 and NGC 5485. ArXiv e-prints. :, pp. arXiv:1804.03727. 04/2018. Available on-line at: <http://adsabs.harvard.edu/abs/2018arXiv180403727S Accepted in Astronomy and Astrophysics. 19 pages, 12 figures, 5 tables>.
Type of production: Scientific paper **Format:** Journal

5 López-Sanjuan C., Vázquez Ramió H., Varela J., Spinoso D., Angulo R. E., Muniesa D., Viironen K., C. J-PLUS: Morphological star/galaxy classification by PDF analysis. ArXiv e-prints. :, pp. arXiv:1804.02673. 04/2018. Available on-line at: <http://adsabs.harvard.edu/abs/2018arXiv180402673L Accepted in Astronomy and Astrophysics>.
Type of production: Scientific paper **Format:** Journal

6 Cenarro A. J., Moles M., Cristóbal-Hornillos D., Marín-Franch A., Ederoclite A., Varela J., López-S. J-PLUS: The Javalambre Photometric Local Universe Survey. ArXiv e-prints. :, pp. arXiv:1804.02667. 04/2018. Available on-line at: <http://adsabs.harvard.edu/abs/2018arXiv180402667C Accepted in A&A>.
Type of production: Scientific paper **Format:** Journal

7 Logroño-García R., Vilella-Rojo G., López-Sanjuan C., Varela J., Viironen K., Muniesa D. J., Cenarr. J-PLUS: measuring ${\rm H}\alpha$ emission line fluxes in the nearby universe. ArXiv e-prints. :, pp. arXiv:1804.04039. 04/2018. Available on-line at: <http://adsabs.harvard.edu/abs/2018arXiv180404039L 13 pages, 8 figures, 3 tables. Submitted to Astronomy and Astrophysics. Comments are welcome>.
Type of production: Scientific paper **Format:** Journal

8 Díaz-García L. A., Cenarro A. J., López-Sanjuan C., Ferreras I., Fernández-Soto A., González Delgad. Stellar populations of galaxies in the ALHAMBRA survey up to $z \sim 1$. III. The stellar content of the quiescent galaxy population during the last 8 Gyr. ArXiv e-prints. :, pp. arXiv:1802.06813. 02/2018. Available on-line at: <http://adsabs.harvard.edu/abs/2018arXiv180206813D 32 pages, 14 figures, 10 tables, submitted to A&A>.
Type of production: Scientific paper **Format:** Journal

9 San Roman I.; Cenarro A. J.; Díaz-García L. A.; López-Sanjuan C.; Varela J.; González Delgado R. M.; Sánchez-Blázquez P.; Alfaro E. J.; Ascaso B.; Bonoli S.; Borlaff A.; Castander F. J.; Cerviño M.; Fernández-Soto A.; Márquez I.; Masegosa J.; Muniesa D.; Pović M.; Viironen K.; Aguerri J. A. L.; Benítez N.; Broadhurst T.; Cabrera-Caño J.; Cepa J.; Cristóbal-Hornillos D.; Infante L.; Martínez V. J.; Moles M.; del Olmo A.; Perea J.; Prada F.; Quintana J. M.The ALHAMBRA survey: 2D analysis of the stellar populations in massive early-type galaxies at z < 0.3. Astronomy and Astrophysics. 609, pp. A20. 01/2018. Available on-line at: <http://adsabs.harvard.edu/abs/2018A%26A...609A..20S>.
Type of production: Scientific paper **Format:** Journal

10 Chaves-Montero J.; Bonoli S.; Salvato M.; Greisel N.; Díaz-García L. A.; López-Sanjuan C.; Viironen K.; Fernández-Soto A.; Pović M.; Ascaso B.; Arnalte-Mur P.; Masegosa J.; Matute I.; Márquez I.; Cenarro A. J.; Abramo L. R.; Ederoclite A.; Alfaro E. J.; Marin-Franch A.; Varela J.; Cristobal-Hornillos D.ELDAR, a new method to identify AGN in multi-filter surveys: the ALHAMBRA test case. Monthly Notices of the Royal Astronomical Society. 472, pp. 2085 - 2106. 12/2017. Available on-line at: <http://adsabs.harvard.edu/abs/2017MNRAS.472.2085C>.
Type of production: Scientific paper **Format:** Journal

11 Díaz-García L. A.; Cenarro A. J.; López-Sanjuan C.; Ferreras I.; Cerviño M.; Fernández-Soto A.; Márquez I.; Pović M.; San Roman I.; Viironen K.; Moles M.; Cristóbal-Hornillos D.; Alfaro E.; Aparicio-Villegas T.; Benítez N.; Broadhurst T.; Cabrera-Caño J.; Castander F. J.; Cepa J.; González Delgado R. M.; Husillos C.; Infante L.; Aguerri J. A. L.; Masegosa J.; Molino A.; del Olmo A.; Perea J.; Prada F.; Quintana J. M.; Martínez V. J.Stellar populations of galaxies in the ALHAMBRA survey up to z~1. II. Stellar populations of quiescent galaxies within the stellar mass- and the UVJ colour-colour diagrams. ArXiv e-prints. pp. arXiv:1711.10590. 11/2017. Available on-line at: <http://adsabs.harvard.edu/abs/2017arXiv171110590D>.
Type of production: Scientific paper **Format:** Journal

12 López-Sanjuan C.; Tempel E.; Benítez N.; Molino A.; Viironen K.; Díaz-García L. A.; Fernández-Soto A.; Santos W. A.; Varela J.; Cenarro A. J.; Moles M.; Arnalte-Mur P.; Ascaso B.; Montero-Dorta A. D.; Pović M.; Martínez V. J.; Nieves-Seoane L.; Stefanon M.; Hurtado-Gil L.; Márquez I.; Perea J.; Aguerri J. A. L.; Alfaro E.; Aparicio-Villegas T.; Broadhurst T.; Cabrera-Caño J.; Castander F. J.; Cepa J.; Cerviño M.; Cristóbal-Hornillos D.; González Delgado R. M.; Husillos C.; Infante L.; Masegosa J.; del Olmo A.; Prada F.; Quintana J. M.The ALHAMBRA survey: B-band luminosity function of quiescent and star-forming galaxies at 0.2 ≤ z < 1 by PDF analysis. Astronomy and Astrophysics. 599, pp. A62. 03/2017. Available on-line at: <http://adsabs.harvard.edu/abs/2017A%26A...599A..62L>.
Type of production: Scientific paper **Format:** Journal

13 Ascaso B., Benítez N., Dupke R., Cypriano E., Lima-Neto G., López-Sanjuan C., Varela J., Alcaniz J.An accurate cluster selection function for the J-PAS narrow-band wide-field survey. Monthly Notices of the Royal Astronomical Society. : 456, pp. 4291 - 4304. 03/2016. Available on-line at: <http://adsabs.harvard.edu/abs/2016MNRAS.456.4291A>.
Type of production: Scientific paper **Format:** Journal

14 Díaz-García L. A.; Cenarro A. J.; López-Sanjuan C.; Ferreras I.; Varela J.; Viironen K.; Cristóbal-Hornillos D.; Moles M.; Marín-Franch A.; Arnalte-Mur P.; Ascaso B.; Cerviño M.; González Delgado R. M.; Márquez I.; Masegosa J.; Molino A.; Pović M.; Alfaro E.; Aparicio-Villegas T.; Benítez N.; Broadhurst T.; Cabrera-Caño J.; Castander F. J.; Cepa J.; Fernández-Soto A.; Husillos C.; Infante L.; Aguerri J. A. L.; Martínez V. J.; del Olmo A.; Perea J.; Prada F.; Quintana J. M.; Gruel N.Stellar populations of galaxies in the ALHAMBRA survey up to z ~ 1. I. MUFFIT: A multi-filter fitting code for stellar population diagnostics. Astronomy and Astrophysics. 582, pp. A14. 10/2015. Available on-line at: <http://adsabs.harvard.edu/abs/2015A%26A...582A..14D>.

Type of production: Scientific paper **Format:** Journal

15 López-Sanjuan C.; Cenarro A. J.; Hernández-Monteagudo C.; Arnalte-Mur P.; Varela J.; Viironen K.; Fernández-Soto A.; Martínez V. J.; Alfaro E.; Ascaso B.; del Olmo A.; Díaz-García L. A.; Hurtado-Gil L.; Moles M.; Molino A.; Perea J.; Pović M.; Aguerri J. A. L.; Aparicio-Villegas T.; Benítez N.; Broadhurst T.; Cabrera-Caño J.; Castander F. J.; Cepa J.; Cerviño M.; Cristóbal-Hornillos D.; González Delgado R. M.; Husillos C.; Infante L.; Márquez I.; Masegosa J.; Prada F.; Quintana J. M.The ALHAMBRA survey: Estimation of the clustering signal encoded in the cosmic variance. Astronomy and Astrophysics. 582, pp. A16. 10/2015. Available on-line at: <http://adsabs.harvard.edu/abs/2015A%26A...582A..16L>.
Type of production: Scientific paper **Format:** Journal

16 Ascaso B.; Benítez N.; Fernández-Soto A.; Arnalte-Mur P.; López-Sanjuan C.; Molino A.; Schoenell W.; Jiménez-Teja Y.; Merson A. I.; Huertas-Company M.; Díaz-García L. A.; Martínez V. J.; Cenarro A. J.; Dupke R.; Márquez I.; Masegosa J.; Nieves-Seoane L.; Pović M.; Varela J.; Viironen K.; Aguerri J. A. L.; Olmo A. D.; Moles M.; Perea J.; Alfaro E.; Aparicio-Villegas T.; Broadhurst T.; Cabrera-Caño J.; Castander F. J.; Cepa J.; Cerviño M.; Delgado R. M. G.; Cristóbal-Hornillos D.; Hurtado-Gil L.; Husillos C.; Infante L.; Prada F.; Quintana J. M.Galaxy clusters and groups in the ALHAMBRA survey. Monthly Notices of the Royal Astronomical Society. 452, pp. 549 - 565. 09/2015. Available on-line at: <http://adsabs.harvard.edu/abs/2015MNRAS.452..549A>.
Type of production: Scientific paper **Format:** Journal

17 Vilella-Rojo G.; Viironen K.; López-Sanjuan C.; Cenarro A. J.; Varela J.; Díaz-García L. A.; Cristóbal-Hornillos D.; Ederoclite A.; Marín-Franch A.; Moles M.Extracting Hα flux from photometric data in the J-PLUS survey. Astronomy and Astrophysics. 580, pp. A47. 08/2015. Available on-line at: <http://adsabs.harvard.edu/abs/2015A%26A...580A..47V>.
Type of production: Scientific paper **Format:** Journal

18 López-Sanjuan C.; Cenarro A. J.; Varela J.; Viironen K.; Molino A.; Benítez N.; Arnalte-Mur P.; Ascaso B.; Díaz-García L. A.; Fernández-Soto A.; Jiménez-Teja Y.; Márquez I.; Masegosa J.; Moles M.; Pović M.; Aguerri J. A. L.; Alfaro E.; Aparicio-Villegas T.; Broadhurst T.; Cabrera-Caño J.; Castander F. J.; Cepa J.; Cerviño M.; Cristóbal-Hornillos D.; Del Olmo A.; González Delgado R. M.; Husillos C.; Infante L.; Martínez V. J.; Perea J.; Prada F.; Quintana J. M.The ALHAMBRA survey: accurate merger fractions derived by PDF analysis of photometrically close pairs. Astronomy and Astrophysics. 576, pp. A53. 04/2015. Available on-line at: <http://adsabs.harvard.edu/abs/2015A%26A...576A..53L>.
Type of production: Scientific paper **Format:** Journal

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Type of production: Scientific paper **Format:** Journal

20 Benitez N.; Dupke R.; Moles M.; Sodre L.; Cenarro J.; Marin-Franch A.; Taylor K.; Cristobal D.; Fernandez-Soto A.; Mendes de Oliveira C.; Cepa-Nogue J.; Abramo L. R.; Alcaniz J. S.; Overzier R.; Hernandez-Monteagudo C.; Alfaro E. J.; Kanaan A.; Carvano J. M.; Reis R. R. R.; Martinez Gonzalez E.; Ascaso B.; Ballesteros F.; Xavier H. S.; Varela J.; Ederoclite A.; Vazquez Ramio H.; Broadhurst T.; Cypriano E.; Angulo R.; Diego J. M.; Zandivarez A.; Diaz E.; Melchior P.; Umetsu K.; Spinelli P. F.; Zitrin A.; Coe D.; Yepes G.; Vielva P.; Sahni V.; Marcos-Caballero A.; Shu Kitaura F.; Maroto A. L.; Masip M.; Tsujikawa S.; Carneiro S.; Gonzalez Nuevo J.; Carvalho G. C.; Reboucas M. J.; Carvalho J. C.; Abdalla E.; Bernui A.; Pigozzo C.; Ferreira E. G. M.; Chandrachani Devi N.; Bengaly C. A. P.; Jr.; Campista M.; Amorim A.; Asari N. V.; Bongiovanni A.; Bonoli S.; Bruzual G.; Cardiel N.; Cava A.; Cid Fernandes R.; Coelho P.; Cortesi A.; Delgado R. G.; Diaz Garcia L.; Espinosa J. M. R.; Galliano E.; Gonzalez-Serrano J. I.; Falcon-Barroso J.; Fritz J.; Fernandes C.; Gorgas J.; Hoyos C.; Jimenez-Teja Y.; Lopez-Aguerri J. A.; Lopez-San Juan C.; Mateus A.; Molino A.; Novais P.; OMill A.; Oteo I.; Perez-Gonzalez P.

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22 Vazdekis A.; Ricciardelli E.; Cenarro A. J.; Rivero-González J. G.; Díaz-García L. A.; Falcón-Barroso J.MIUSCAT: extended MILES spectral coverage - I. Stellar population synthesis models. Monthly Notices of the Royal Astronomical Society. 424, pp. 157 - 171. 07/2012. Available on-line at: <http://adsabs.harvard.edu/abs/2012MNRAS.424..157V>.
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Type of production: Scientific-technical report **Format:** Journal

24 Díaz-García L. A.; Cenarro A. J.; López-Sanjuan C.MUFFIT: A MUlti-Filter FITting code to explore the stellar content of galaxies in photometric surveys. Highlights of Spanish Astrophysics VIII. pp. 366 - 366. 05/2015. Available on-line at: <http://adsabs.harvard.edu/abs/2015hsa8.conf..366D>.
Type of production: Scientific-technical report **Format:** Journal

25 Díaz-García L. A.; Cenarro A. J.; López-Sanjuan C.The formation epochs of red-sequence galaxies. Highlights of Spanish Astrophysics VIII. pp. 183 - 188. 05/2015. Available on-line at: <http://adsabs.harvard.edu/abs/2015hsa8.conf..183D>.
Type of production: Scientific-technical report **Format:** Journal

26 López-Sanjuan C.; Cenarro A. J.; Díaz-García L. A.; Muniesa D. J.; San Roman I.; Varela J.; Viironen K.J-PAS : Low-resolution (R ~ 50) spectroscopy covering 8000 deg². Galaxies in 3D across the Universe. 309, pp. 29 - 30. 02/2015. Available on-line at: <http://adsabs.harvard.edu/abs/2015IAUS..309...29L>.
Type of production: Scientific-technical report **Format:** Journal

27 Viironen K.; Marín-Franch A.; Cenarro A. J.; Cristóbal-Hornillos D.; Díaz-García L. A.; Gruel N.; López-Sanjuan C.Lyman break galaxies in ALHAMBRA, J-PLUS, and J-PAS surveys. Highlights of Spanish Astrophysics VII. pp. 467 - 467. 05/2013. Available on-line at: <http://adsabs.harvard.edu/abs/2013hsa7.conf..467V>.
Type of production: Scientific-technical report **Format:** Journal

28 Díaz-García L. A.; Cenarro A. J.; Alhambra Team. Old stellar population studies in multifilter spectro-photometric data. Highlights of Spanish Astrophysics VII. pp. 202 - 207. 05/2013. Available on-line at: <http://adsabs.harvard.edu/abs/2013hsa7.conf..202D>.
Type of production: Scientific-technical report **Format:** Journal

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Type of production: Scientific-technical report **Format:** Journal

30 Díaz-García L. A.; Mármol-Queraltó E.; Trujillo I.; Cenarro A. J.; López-Sanjuan C.; Pérez-González P. G.; Barro G.The growth of massive galaxies due to merging since z~1 is size independent. Highlights of Spanish Astrophysics VII. pp. 437 - 437. 05/2013. Available on-line at: <http://adsabs.harvard.edu/abs/2013hsa7.conf..437D>.
Type of production: Scientific-technical report **Format:** Journal

31 Cenarro A. J.; Moles M.; Cristóbal-Hornillos D.; Marín-Franch A.; Gruel N.; Yanes-Díaz A.; Chueca S.; Varela J.; Ederoclite A.; Rueda-Teruel F.; Rueda-Teruel S.; Benítez N.; Cepa J.; Dupke R.; Fernández-Soto A.; Mendes de Oliveira C.; Sodré L.; Taylor K.; Pirnay O.; Antón J. L.; Díaz-García L. A.; Díaz-Martín M. C.; Gracia-Gracia S.; Guillén-Civera L.; Hernández-Fuertes J.; Hernández-Monteagudo C.; Lamadrid J. L.; López-Sainz A.; López-Sanjuan C.; Luis-Simoes R.; Maícas N.; Valdivielso L.; Viironen K.The Observatorio Astrofísico de Javalambre: goals and current status. Observatory Operations: Strategies, Processes, and Systems IV. 8448, pp. 84481A. 09/2012. Available on-line at: <http://adsabs.harvard.edu/abs/2012SPIE.8448E..1AC>. ISBN 978-0-8194-9149-7
Type of production: Scientific-technical report **Format:** Journal

32 Chaves-Montero J.; Bonoli S.; Salvato M.; Greisel N.; Diaz-Garcia L. A.; Lopez-Sanjuan C.; Viironen K.; Fernandez-Soto A.; Povic M.; Ascaso B.; Arnalte-Mur P.; Masegosa J.; Matute I.; Marquez I.; Cenarro A. J.; Abramo L. R.; Ederoclite A.; Alfaro E. J.VizieR Online Data Catalog: ALHAMBRA fields type-I AGN with ELDAR (Chaves-Montero+, 2017). VizieR Online Data Catalog. 747, 08/2017. Available on-line at: <http://adsabs.harvard.edu/abs/2017yCat..74722085C>.
Type of production: Catalog **Format:** Journal

33 Molino A.; Benitez N.; Moles M.; Fernandez-Soto A.; Cristobal-Hornillos D.; Ascaso B.; Jimenez-Teja Y.; Schoenell W.; Arnalte-Mur P.; Povic M.; Coe D.; Lopez-Sanjuan C.; Diaz-Garcia L. A.; Varela J.; Stefanon M.; Cenarro J.; Matute I.; Masegosa J.; Marquez I.; Perea J.; Del Olmo A.; Husillos C.; Alfaro E.; Aparicio-Villegas T.; Cervino M.; Huertas-Company M.; Aguerri J. A. L.; Broadhurst T.; Cabrera-Cano J.; Cepa J.; Gonzalez R. M.; Infante L.; Martinez V. J.; Prada F.; Quintana J. M.VizieR Online Data Catalog: ALHAMBRA Survey (Molino+, 2014). VizieR Online Data Catalog. 744, 01/2016. Available on-line at: <http://adsabs.harvard.edu/abs/2016yCat..74412891M>.
Type of production: Catalog **Format:** Journal

Works submitted to national or international conferences

1 **Title of the work:** Stellar population and Weak lensing studies in large scale multi-filter surveys
Name of the conference: Invited seminar
Corresponding author: Yes
City of event: Hsinchu, Taiwan
Date of event: 09/11/2018
Organising entity: National Tsing Hua University, Institute of Astronomy

2 **Title of the work:** Correlations between the size and the stellar population properties of quiescent galaxies
Name of the conference: XIII reunión científica de la SEA
City of event: Salamanca, Castile and León, Spain
Date of event: 16/07/2018
End date: 20/07/2018
Organising entity: Universidad de Salamanca **Type of entity:** University

City organizing entity: Salamanca, Castile and León, Spain
Luis Alberto Díaz García.

3 **Title of the work:** MUFFIT a MUlti-Filter FITting code for stellar population diagnostics: a practical guide for using it
Name of the conference: Invited seminar
Corresponding author: Yes
City of event: Teruel, Aragon, Spain
Date of event: 28/05/2018
Organising entity: FUNDACION CENTRO DE ESTUDIOS DE FISICA DEL COSMOS DE ARAGON
Luis Alberto Díaz García.

4 **Title of the work:** Stellar population studies of galaxies in multifilter photometric surveys
Name of the conference: Invited seminar
City of event: Dorking, Surrey, East and West Sussex, United Kingdom
Date of event: 27/11/2015
Organising entity: MSSL/UCL

5 **Title of the work:** Unveiling the continuous assembly of the quiescent galaxy population
Name of the conference: 11th J-PAS meeting
City of event: Santander, Cantabria, Spain
Date of event: 14/09/2015
End date: 18/09/2015

6 **Title of the work:** Formation epochs of the ALHAMBRA “red” galaxies
Name of the conference: 10th J-PAS meeting
City of event: Paraty, Brazil
Date of event: 09/03/2015
End date: 13/03/2015

7 **Title of the work:** POSTER. MUFFIT: a Multi-Filter FITting code to explore the stellar content of galaxies in photometric surveys
Name of the conference: RASPUTIN ESO workshop 2014
City of event: Garching, Germany
Date of event: 13/10/2014
End date: 17/10/2014
Organising entity: ESO

8 **Title of the work:** POSTER. Sizes, formation epochs and stellar population properties of red-sequence galaxies up to z~1
Name of the conference: RASPUTIN ESO workshop 2014
City of event: Garching, Germany
Date of event: 13/10/2014
End date: 17/10/2014
Organising entity: ESO

9 **Title of the work:** MUFFIT: a Multi-Filter FITting code to explore the stellar content of galaxies in photometric surveys
Name of the conference: 9th J-PAS meeting
City of event: Teruel, Aragon, Spain
Date of event: 22/09/2014

End date: 25/09/2014

10 **Title of the work:** POSTER. MUFFIT: a Multi-Filter FITting code to explore the stellar content of galaxies in photometric surveys
Name of the conference: XI reunión científica de la SEA
City of event: Teruel, Aragon, Spain
Date of event: 08/09/2014
End date: 13/09/2014
Organising entity: CEFCA

11 **Title of the work:** The formation epochs and size effects of red-sequence galaxies
Name of the conference: XI reunión científica de la SEA
City of event: Teruel, Spain
Date of event: 08/09/2014
End date: 13/09/2014
Organising entity: CEFCA

12 **Title of the work:** Old stellar populations in multi-filter surveys
Name of the conference: 8th J-PAS meeting
City of event: Florianopolis, Brazil
Date of event: 10/03/2014
End date: 14/03/2014

13 **Title of the work:** Old stellar population studies in spectro-photometric studies
Name of the conference: 7th J-PAS meeting
City of event: Teruel, Spain
Date of event: 30/09/2013
End date: 04/10/2013
Organising entity: CEFCA

14 **Title of the work:** Stellar populations and the IMF of early-type galaxies in ALHAMBRA
Name of the conference: EWASS 2013
City of event: Turku, Finland
Date of event: 08/07/2013
End date: 13/07/2013

15 **Title of the work:** Old stellar population analysis techniques in multi-filter surveys
Name of the conference: 1st SHARDS meeting
City of event: Madrid, Community of Madrid, Spain
Date of event: 20/06/2013
End date: 21/06/2013
City organizing entity: UCM,

16 **Title of the work:** Old stellar population studies in multifilter spectro-photometric data
Name of the conference: 6th J-PAS meeting
City of event: Valencia, Valencian Community, Spain
Date of event: 25/02/2013
End date: 01/03/2013

17 **Title of the work:** Old stellar population studies in multifilter spectro-photometric data
Name of the conference: 5th J-PAS meeting
City of event: Sao Paulo, Brazil
Date of event: 10/09/2012
End date: 13/09/2012
Díaz-García, L.A.

18 **Title of the work:** Old stellar population studies in multifilter spectro-photometric data
Name of the conference: X reunión científica de la SEA
City of event: Valencia, Valencian Community, Spain
Date of event: 09/07/2012
End date: 13/07/2012
Díaz-García, L.A.

19 **Title of the work:** POSTER. The growth of massive galaxies due to merging since z~1 is size independent
Name of the conference: X reunión científica de la SEA
City of event: Valencia, Valencian Community, Spain
Date of event: 09/07/2012
End date: 13/07/2012
Díaz-García, L.A.

20 **Title of the work:** Stellar populations for ALHAMBRA Early-type galaxies
Name of the conference: 4th J-PAS meeting
City of event: Madrid, Community of Madrid, Spain
Date of event: 03/2012
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
Díaz-García, L.A.

21 **Title of the work:** Stellar populations for ALHAMBRA Early-Type galaxies
Name of the conference: ALHAMBRA Core Team
City of event: Valencia, Valencian Community, Spain
Date of event: 18/12/2011
Organising entity: Instituto de Astrofísica de Andalucía **Type of entity:** State agency
City organizing entity: Granada, Andalusia, Spain
Luis Alberto Díaz García.

22 **Title of the work:** Stellar populations analysis techniques for ALHAMBRA early-type galaxies
Name of the conference: 3rd J-PAS PAU-Brasil meeting
City of event: Río de Janeiro, Brazil
Date of event: 06/07/2011
Organising entity: Observatório Nacional (ON) **Type of entity:** Public Research Body
City organizing entity: Río de Janeiro, Brazil
Luis Alberto Díaz García.

23 **Title of the work:** Stellar populations of early-type galaxies at different redshifts
Name of the conference: RAVET meeting
City of event: San Lorenzo de El Escorial, Community of Madrid, Spain
Date of event: 10/06/2011
Type of entity: University

Organising entity: Universidad Complutense de Madrid
City organizing entity: Madrid, Community of Madrid, Spain
Luis Alberto Díaz García.

Other achievements

Stays in public or private R&D centres

1 **Entity:** Mullard Space Science Laboratory - University College London **Type of entity:** Public Research Body
City of entity: Dorking, Surrey, East and West Sussex, United Kingdom
Start-End date: 28/10/2015 - 01/12/2015
Goals of the stay: Doctorate

2 **Entity:** Mullard Space Science Laboratory - University College London **Type of entity:** Public Research Body
City of entity: Dorking, Surrey, East and West Sussex, United Kingdom
Start-End date: 15/10/2013 - 15/12/2013 **Duration:** 2 months
Goals of the stay: Doctorate

3 **Entity:** Instituto de Astrofísica de Canarias **Type of entity:** Public Research Body
Faculty, institute or centre: centro
City of entity: San Cristobal de La Laguna, Canary Islands, Spain
Start-End date: 06/04/2012 - 26/04/2012
Goals of the stay: Doctorate