

CURRICULUM VITAE ABREVIADO (CVA)

IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.

Part A. PERSONAL INFORMATION

First name	Juan Carlos		
Family name	Suárez Yanes		
Gender (*)	M	Birth date (dd/mm/yyyy)	
Social Security, Passport, ID no			
e-mail		URL Web	
Open Researcher and Contributor ID (ORCID) (*)			

(*) Mandatory

A.1. Current position

Position	Profesor Titular de Universidad		
Initial date	9/12/2020		
Institution	Universidad de Granada		
Department/Center			
Country	Spain	Spain	Spain
Key words	Stellar Physics, Asteroseismology, Stellar Rotation, Exoplanets		

A.2. Previous positions (research activity interruptions, indicate total months)

Period	Position/Institution/Country/Cause of the interruption
2014-2020	Ramón y Cajal Fellowship/ UGR/ Spain/ End of contract
2014	Post-doc. /IAA-CSIC/ Spain / End of contract
2011-2013	Several post-docs/IAA-CSIC/Spain/End of contracts
2006-2013	CSIC-I3P fellowship / IAA-CSIC/ Spain / End of contract
2004-2006	I3P contract/IAA-CSIC/Spain/End of contract
2005-2006	Specialization grant from Junta de Andalucía/Observatoire de Paris/France/End of contract
1999-2002	PhD grant/Observatoire de Paris/France/End of grant.

A.3. Education

PhD, Graduate Degree	University/Country	Year
PhD	Observatoire de Paris - Univ. Paris 7 / France	2002
CAP	Universidad de Granada / Spain	2004
Licenciatura en CC Físicas	Universidad de La Laguna / Spain	1999

(Include all the necessary rows)

Part B. CV SUMMARY (max. 5000 characters, including spaces)

No. Publications (total): 217; No. Citations (total): 6518; No. Publications (Q1): 93; No citations (Q1): 4592; h-index = 40; i10-index = 91 (metrics source: ADS). No. edited Books: 1; No. thesis advised: 4; No. ongoing thesis: 2. I have given 6 invited reviews and organized 2 international conferences (edited book). I've been granted with 5 founded national projects (277.211+139.500+157.300+25.000+13.000 euros) and 1 FP7 project (SpaceInn) as responsible of beneficiary institution (IAA-CSIC). From 2021 I have 4 *sexenios* and 4 *quinquenios* recognized.

Head of the GARNAT (Stellar Evolution and Asteroseismology) team at UGR, I got a permanent position at the University of Granada (Spain) in 2020 after a successful Ramón y Cajal fellowship. As Professor, I established and lead the GARNAT team, specializing in stellar structure and evolution with a focus on asteroseismology. The team comprises two staff

members, post-docs, MSc students, and two PhD students. Our primary research centers on the structure and evolution of intermediate-mass rotating stars using asteroseismology, with recent expansions into characterizing exoplanetary systems, covering both detection and dynamics. Our work involves ground-based instruments and space missions, including CoRoT, Kepler/K2, and TESS. Currently, I play a crucial role in the PLATO2.0 mission, serving as a member of its Consortium Board. Additionally, I am the coordinator of PLATO work package WP121.130 and a key contributor to WP374.310. I am also scientific coordinator of the PLATO main electronic units (MEU). In 2022, I joined the Scientific Committee of the HAYDN space mission consortium (ESA), where I coordinate the WP for the study of A-F stars. Furthermore, I serve as the Scientific Responsible for the TOUCAN project within the Spanish VO project (CAB-CSIC).

Part C. RELEVANT MERITS (sorted by typology)

C.1. Publications (see instructions)

- #01(2023) Pamos Ortega, Mirouh, García Hernández, Suárez, et al. (4/5) “*Dating young open clusters using δ Scuti stars. Results for Trumpler 10 and Praesepe*”, A&A, 675, 167 (2023)
- #02(2022) Pamos Ortega, García Hernández, Suárez, et al. “*Determining the seismic age of the young open cluster α Per using δ Scuti stars*”, MNRAS, 513(1), 374 (2022)
- #03(2021) A. Ramón Ballesta, A. García Hernández, J.C. Suárez, et al. “*Study of rotational splittings in δ Scuti stars using pattern finding techniques*”, MNRAS 505(4), 6217 (2021)
- #04(2020) J.R. Jenkins, F.J. Pozuelos, M. Tuomi, et al. (incl. J.C. Suárez), (55/59) “*GJ 357: A low-mass planetary system uncovered by precision radial-velocities and dynamical simulations*” Nature Astronomy 3, 1099
- #05(2019) S. De Franciscis, J. Pascual-Granado, J.C. Suárez, et al. “*Physical insights on fractal analysis applied to light curves δ Scuti stars*”, MNRAS 487, 4457
- #06 (2018) S. De Franciscis, J. Pascual-Granado, J.C. Suárez, et al. (3/5) “*Fractal analysis applied to light curves of δ Scuti stars*”, MNRAS 481, 4637
- #07 (2017) A. García Hernández, J.C. Suárez, A. Moya, et al. “*Precise surface gravities of δ Scuti stars from asteroseismology*”, MNRAS 471,L140
- #08 (2017) A. Moya, J.C. Suárez, A. García Hernández, M.A Mendoza, “*Semi-empirical seismic relations of A-F stars from COROT and Kepler legacy data*”, MNRAS, 471, 2491
- #09 (2015) J. Pascual-Granado, R. Garrido, & J.C Suárez (3/3) “*MIARMA: A minimal-loss information method for filling gaps in time series. Application to CoRoT light curves.*”, A&A 575, A78 – A86
- #10 (2014) J.C. Suárez, A. García Hernández, A. Moya, et al. (1/7) “*Measuring mean densities of δ Scuti stars with asteroseismology. Theoretical properties of large separations using TOUCAN*”, A&A, 536, 7 – 18

C.2. Congress, indicating the modality of their participation (invited conference, oral presentation, poster)

- #01(I, 2021) J.C. Suárez, “*Asteroseismology and the PLATO mission in the context of the GARANAT team*”. 8th Iberian Meeting on Asteroseismology. 18-21 Oct. 2021. Online event. **Invited talk**
- #02(I, 2020) J.C. Suárez, “*Asteroseismology and the PLATO mission in the context of the GARANAT team*”. 8th Iberian Meeting on Asteroseismology. 06-09 Oct. 2020. Online event. **Invited talk**
- #03(I, 2019) J.C. Suárez, “*Gravity and limb darkening for space missions (CoRoT, Kepler, MOST, TESS) and plans for PLATO*” PLATO Limb-darkening meeting #1, 26-27 Feb 2019, Granada. Spain. **Invited talk**
- #04(I, 2019) J.C. Suárez “*Estimating large separation and rotational splittings of delta Scuti stars with neural networks*”. TASC5/KASC12 Workshop. 22-26 July 2019. Cambridge. Boston, USA. Contributed talk

- #04(I, 2018) J.C. Suárez “*On the use of the Shannon's information entropy to estimate stellar densities*”. TASC4/KASC11 Workshop. First light in a new era of Astrophysics. 8-13 July 2018. Aarhus. Denmark. Poster
- #05(N,2018) J.C. Suárez “*The entropy of stellar oscillations*”. XIII Scientific meeting of the Spanish Astronomical Society (SEA). 16-20 July, 2018. Salamanca, Spain. Contributed talk.
- #06(I, 2018) F.J. Pozuelos & J.C. Suárez, “ MEGNO: fast method to study dynamics of planetary systems”. iversis mundi: The Solar System in an Exoplanetary context (OPS2018). European Southern Observatory. 2018. Chile. Poster.
- #06(I, 2017) J.C. Suárez “*On a frequency pattern estimated on a entropy-based method*”, PLATO mission conference 2017, 6-7 Sept. 2017, Warwick, UK. Contributed talk.
- #07(I, 2016) J.C. Suárez, “*Pulsating Stars and the Virtual Observatory*”. Wide-Field Variability Surveys: A 21st Century Perspective - 22nd Los Alamos Stellar Pulsation - Conference Series Meeting. ESO. 2016. Chile. Invited talk.
- #08(I, 2016) J.C. Suárez & J. Pascual-Granado “The impact of gap-filling methods for the determination of periodicities in the oscillation spectra of A-F stars”. Stars 2016 Conference. 11-16 Sept. 2016, Lake District, UK. Contributed talk.
- #09(N,2016) J.C. Suárez “The PLATO mission”. Encuentro RIA-Space Tec: nuevas perspectivas en el desarrollo de instrumentación astronómica en España. 10-12 Feb. 2016. Madrid, Spain. Contributed talk.
- #10(N,2014) J.C. Suárez, R Garrido & J.M. Mas-Hesse, “*Asteroseismology in PLATO: a necessary tool for characterising planetary systems*”, XI Scientific meeting of the Spanish Astronomical Society (SEA). 8-12 Sept, 2014. Teruel, Spain. Contributed talk.

C.3. Research projects, indicating your personal contribution. In the case of young researchers, indicate lines of research for which they have been responsible.

- (01/06/2019 – 31/05/2024), “*Contribution of UGR in the space mission PLATO2.0. Phases B2/C/D-1*”. PID2019-107061-64GB -. Funding entity: Ministerio de Ciencia e Innovación, AEI. **IP: J.C. Suárez**. Total amount: 277,211 €.
- (01/01/2018 – 31/12/2019), “*Contribution of UGR in the space mission PLATO2.0. Phases B2/C/D*”. ESP2017-87676-C5-2-R. Funding entity: MINECO. **IP: J.C. Suárez**. Total amount: 139,500 €.
- (01/01/2016 – 31/12/2017, ext 31/12/2018), “*Contribution of UGR in the space mission PLATO2.0. Phases B2/C*”. ESP2015-65712-C5-5-R. Funding entity: MINECO. **IP: J.C. Suárez**. Total amount: 157,300 €.
- (16/05/14 - 15/05/18) “*Contribución Andaluza al proyecto espacial CoRoT*”. P12-TIC-2469. Funding entity: Junta de Andalucía local Government. **IP: R. Garrido**. Participation: Collaborator. Total amount: 259,745 €.
- (01/01/13 - 31/12/15) “*Participación española en CoRoT*”. AYA2012-39346-C02-01. Funding entity: Spanish Ministry of Science. **IP: R. Garrido (IAA-CSIC)**, Participation: **collaborator**. Total amount: 160,000 €.
- (01/10/2012 - 30/09/2016) “*Exploitation of space data for innovative helio- and asteroseismology (SPACEINN)*”. FP7-SPACE-2012-1. Coordinator: Markus Roth (Freighburg University, Germany). Participation: **IP of beneficiary institute IAA-CSIC**. Total amount: 1,994,615 €.
- (01/01/2012 - 31/12/2014) “*CARMENES-IAA: design and construction of the NIR channel, characterisation of the simple and asteroseismology*”. AYA2011-30147-C03-01. Funding entity: Spanish Ministry of Economy & Competitiveness. **IP: P.J. Amado**. Participation: Collaborator. Total amount: 551,400 €.
- (01/01/2011 - 31/12/2011). “*Contribution of IAA to PLATO*”. AYA2010-12030-E. Funding entity: Spanish Ministry of Science. **IP: J.C. Suárez (IAA-CSIC)**. Total amount: 25,000 €.

C.4. Contracts, technological or transfer merits, Include patents and other industrial or intellectual property activities (contracts, licenses, agreements, etc.) in which you have collaborated. Indicate: a) the order of signature of authors; b) reference; c) title; d) priority countries; e) date; f) Entity and companies that exploit the patent or similar information, if any. From 2014 up to date, I have been lecturer at UGR at (1) Grado de Geología (505H), (2) Grado de Física (15H), (3) Master en Astrofísica (65H), 10 TFG and 14 TFM.

- 2019- PhD thesis advisor (ongoing). Roque Caballero Navarro “*Efectos de la rotación en la evolución de estrellas de baja masa*”. UGR
- 2019- PhD thesis advisor (ongoing). David Pamos Ortega “*Estudio de las edades astrosismológicas en cúmulos*”. Universidad de Granada.
- 2016 PhD thesis advisor. José Ramón Rodón Ortiz “*Portabilidad de aplicaciones en astronomía a la infraestructura de computación Grid*”. Sobresaliente Cum Laude. Universidad de Granada, Spain.
- 2014 PhD thesis advisor. Javier Pascual Granado. “*Inconsistencias en el análisis armónico de estrellas pulsantes observadas desde satélite*”. Sobresaliente Cum Laude. Universidad de Granada, Spain.

International Committees

- 2022 - Member of the HAYDN Scientific Committee (ESA)
- 2014 - Member of the PLATO2.0 Mission Board (ESA)
- 2013/14 Member of the Time Allocation Committee of Calar Alto Observatory
- 2013 - OPTICON external evaluator

Committees for the evaluation of scientific activity

- 2015/16 Member of the ESO- OPC
- 2015 - External reviewer member of the Polish National Science Centre
- 2011 - External reviewer member of the Belgian National Scientific Research System (FNRS)
- 2008 - Reviewer of international peer-review journals: ApJ, AJ, A&A, Ap&SS, and MNRS

Participation in research teams

- 2017/19 International ISSI team. SoFAR (Seismology of Fast Rotating stars) <http://www.issibern.ch/teams/sofar/>
- 2015 - TESS Asteroseismology Science Consortium (TASC). International team for the asteroseismic exploitation of the TESS data.
- 2014 - PLATO Data Center (PDC) and PLATO Science Management (PSM) teams for preparation of the data analysis and Science, respectively.
- 2007 - Kepler Asteroseismology Science Consortium (KASC). International team for the asteroseismic exploitation of the Kepler data.

Technological projects

- 2014- PLATO MEU coordination (IAA-CSIC/UGR)
- 2009 - TOUCAN – The VO gateway for stellar models (<http://svo.cab.inta-csic.es/theory/sisms3/>). Spanish Virtual Observatory project. Scientific Responsible. Main publication (#03). 6 papers published with the tool.

Scientific societies

Member of the International Astronomical Union (IAU) from 2015 and member of the Spanish Astronomy Society (SEA) from 2009

Scientific outreach

Author of several outreach articles (IAA journal). Co-editor of “An astromical journey” (CD-ROM interactive media) published by IAA-CSIC. Participation in “night of researchers” activity; the “week of science” at UGR, etc.

Other

“Doctor Vinculado” to IAA-CSIC from 2017 to 2019. Personnel representative at IAA-CSIC (2009-13) and Member/founder of “Investigación Digna” (2009) and “Carta por la ciencia” (2011) platforms.