



1 Current position

- *Postdoctoral researcher* in the K-dwarfs Orbitated By habitable Exoplanets (**KOBE**) project at the Centro de Astrobiología (**CAB**). European Space Astronomy Centre (**ESAC**) in Madrid, Spain.

For a complete list of previous positions, please refer to Appendix [A](#).

2 Expertise and interests

- Stellar characterisation of cool dwarfs: Fundamental parameters and stellar multiplicity.
- Detection and characterisation of exoplanets, mainly using the radial-velocity method.
- Determination of spectral parameters in the infrared.

3 Publication summary

- **98** publications, including: **56** refereed papers (published in 1st quartile of impact factor journals: *A&A*, *ApJ*, *Science*), **3** as a first author, **8** as a second, third, or *last* author, **31** VizieR catalogues, **1** circular.
- **16** *proceedings* of national and international meetings; **10** oral contributions, **14** poster contributions.
- **1876** citations; Hirsch *h*-index = **23** (n publications with $\geq n$ citations); Hirsch *m*-index = **2.9** ($m = h/(n_{2024} - n_{2018})$); *i*₁₀-index = **35** (number of publications with ≥ 10 citations).

For more details, please refer to Appendices [B](#) and [C](#), and to the dedicated library in [ADS](#).

4 Observational experience

- **4** approved proposals as PI (8 full nights, 4 half nights, and 5 service nights) and **6** approved proposals as co-PI (**20+** full nights).
- **13** nights on telescope as observer or co-observer at NOT, WHT, INT, 2.2-m CAHA, and **1** remote night co-observing with VLT.

For more details, please refer to Appendix [D](#).

5 Degrees

- *PhD Astrophysics*, UCM/CAB/MPIA, Madrid, 2023.
- *MSc Astrophysics*, UCM. Madrid, 2017.
- *MSc Renewable energies*, UAM, Madrid, 2014.
- *BSc/Lic. Physics*, USAL, Salamanca, 2013.

For more details, please refer to Appendix E.

6 Skills

6.1 Computational

BEGINNER means *used at some point*; OPERATIONAL means *extensive experience with*; PROFICIENT means *day-to-day comfort*.

	BEGINNER	OPERATIONAL	PROFICIENT
Operating Systems		Linux, Windows	macOS
Programming	C, C#	Shell Script (Unix)	Python
Databases		SQL (ADQL)	
Collaboration & Version control		Git	
Mathematics & Statistics	MATLAB, SPSS	Mathematica, R	
Virtual Observatory	Splat, Stilts		TOPCAT, VOSA
Astronomy (Databases)			CDS ¹
Astronomy (Exoplanet analysis)	exoplanet	juliet, exostriker	
Astronomy (Spectra reduction)	IRAF, DS9		
Document preparation			L ^A T _E X ² , #Markdown
Web development & design	jQuery	html, CSS, BS5	
Image, audio & video edition		ADOBE PS, BR	iMovie, Final Cut Pro

6.2 Languages

<i>Español</i>	Mother tongue
<i>English</i>	High level speaking, listening and reading (C1)
<i>Deutsch</i>	Some speaking, listening and reading ability (~A1–A2)

¹Centre de Données astronomiques de Strasbourg (CDS) includes ADS, Simbad, VizieR, and Aladin.

²Additionally, office suites such as Microsoft Office (Word, Powerpoint, Excel) and macOS iWork (Pages, Keynote, Numbers).
Typing speed: 47–48 wpm / 235–240 cpm ($\geq 95\%$ accuracy) – @keybr

7 Personal details

<i>Full name</i>	Cifuentes San Román, Carlos
Email (work)	ccifuentes@cab.inta-csic.es
telephone	918 13 14 12
<i>Affiliation</i>	Centro de Astrobiología (CAB, CSIC-INTA)
<i>Address</i>	Centro de Astrobiología, Camino Bajo del Castillo s/n Urb. Villafranca del Castillo, 28692, Villanueva de la Cañada (Madrid)
ORCID	0000-0003-1715-5087
ADS	Cifuentes C.
Website	ccifuentesr.github.io

8 References

- Dr. Jorge Lillo Box (CAB; jlillo@cab.inta-csic.es, www.jlillobox.com)
- Dr. José Antonio Caballero Hernández (CAB; caballero@cab.inta-csic.es, www.exoterrae.eu)
- Dr. Jorge Sanz Forcada (CAB; jsanz@cab.inta-csic.es)
- Dr. María Rosa Zapatero Osorio (CAB; mosorio@cab.inta-csic.es)
- Dr. A. Schweitzer (HS; andreas.schweitzer@hs.uni-hamburg.de)
- Dr. Trifon Trifonov (MPIA; trifonov@mpia.de)
- Prof. Dr. David Montes Gutiérrez (UCM; dmontes@cab.inta-csic.es)
- Prof. Dr. Ángel Morales Sabio (CIEMAT; amorales@ciemat.es) → [Recom. letter](#)

CAB: Centro de Astrobiología; CIEMAT: Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas; HS: Hamburger Sternwarte; MPIA: Max-Planck-Institut für Astronomie; UCM: Universidad Complutense de Madrid.

A Professional experience

A.1 Research

- **Predocctoral Researcher** – [Centro de Astrobiología \(CAB\)](#), Madrid.
[Dr. José Antonio Caballero](#) and [Dr. Jorge Sanz Forcada](#). Jul 2018–Mar 2023 (**4.5 years**).
- **Predocctoral Internship** – [Max-Planck-Institut für Astronomie \(MPIA\)](#), Heidelberg.
[Dr. Trifon Trifonov](#). Sep–Dec 2021 (**3 months**).
- **Research Personnel in training** – [Universidad Complutense de Madrid \(UCM\)](#), Madrid.
[Dr. José Antonio Caballero](#) and [Prof. David Montes](#). Nov 2016–Sep 2017 (**10 months**).
- **Research Personnel in training** – [Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas \(CIEMAT\)](#), Madrid.
[Dr. Ángel Morales Sabio](#) and [Dr. Nuria Germán Cordero](#). Jan–Jun 2014 (**5 months**).

A.2 Teaching

- **Professor** – *Introduction to Astronomy* for science and non-science majors. Saint Louis University ([SLU](#)), Madrid.
Jan–May 2024 (**1 semester**).
- **Professor** – *Differential Geometry*. BSc in Mathematics at Universidad Internacional de Empresa ([UNIE](#)), Madrid. Jan–Jun 2024 (**1 semester**).

A.3 Private company

- **Energy Consultant** – [Indra Sistemas S.A.](#), Madrid. Nov 2014–Jul 2016 (**1.7 years**).

A.4 Grants and funding

Plan Nacional projects

- **PID2023-150468NB-I00**: “Formación estelar y planetaria: la diversidad y habitabilidad según JWST Y PLATO” (CAB-INTA). co-PIs: [Dr. David Barrado Navascués](#), [Dr. Nuria Huéllamo Bautista](#).
- **PID2019-109522GB-C51**: “Enanas marrones y planetas aislados y alrededor de estrellas” (CAB-CSIC). co-PIs: [Dr. María Rosa Zapatero Osorio](#), [Dr. José A. Caballero Hernández](#).
- **AYA2016-79425-C3-2-P**: “Enanas marrones y planetas aislados y como compañeros de estrellas” (CAB-CSIC). Subprograma de Formación de Personal Investigador (FPI). Granted amount: 92 843 EUR; Administered budget: 6250 EUR. co-PIs: [Dr. María Rosa Zapatero Osorio](#), [Dr. Jorge Sanz Forcada](#).

Other national projects

- **MDM-2017-0737**: Unidad de Excelencia María de Maeztu “Evaluando la emergencia de vida como un fenómeno universal mediante la exploración planetaria” (CAB).

B Research

For publications that are not first-authored, the individual contribution is indicated in upperscript, summarised as follows: (1) Writing, reviewing literature, formatting and editing; (2) Stellar characterisation and discussion of stellar features, including derivation of stellar parameters (\mathcal{L} , \mathcal{M} , \mathcal{R} ; T_{eff}); (3) Data collection, manipulation and analysis; (4) Plotting and visualisation elements; (5) Other (specified).

B.1 Publications with peer review process

54. C. Cifuentes, J. A. Caballero, J. González-Payo, P. J. Amado, V. J. S. Béjar, et al. “The CARMENES input catalogue of M dwarfs. IX. Multiplicity from close spectroscopic binaries to ultrawide systems”. *Astronomy & Astrophysics*, submitted.
53. O. Balsalobre-Ruza, J. Lillo-Box, A. M. Silva, et al. (incl. C. Cifuentes⁴). “The KOBE experiment: II. Two sub-Neptune-mass planets around a late K-dwarf”. *Astronomy & Astrophysics*, submitted.
52. H. L. Ruh, M. Zechmeister, A. Reiners, E. Nagel, Y. Shan, C. Cifuentes^{1,2}, et al. “The CARMENES search for exoplanets around M dwarfs The impact of rotation and magnetic fields on the radial velocity jitter in cool stars”. *Astronomy & Astrophysics*, accepted.
51. M. Cortés-Contreras, J. A. Caballero, D. Montes, C. Cardona-Guillén, V. J. S. Béjar, C. Cifuentes^{1,2}, et al. “CARMENES input catalogue of M dwarfs VIII. Kinematics in the solar neighbourhood”. *Astronomy & Astrophysics*, accepted.
50. J. González-Payo, J. A. Caballero, J. Gorgas, M. Cortés-Contreras, M. C. Gálvez-Ortiz, C. Cifuentes^{1,2}. “Multiplicity of stars with planets in the solar neighbourhood”. *Astronomy & Astrophysics*, 689, A302.
49. A. von Stauffenberg, T. Trifonov, A. Quirrenbach, S. Reffert, et al. (incl. C. Cifuentes^{1,2}). “The CARMENES search for exoplanets around M dwarfs. Revisiting the GJ 581 multi-planetary system with new Doppler measurements from CARMENES, HARPS, and HIRES”. *Astronomy & Astrophysics*, 688, A112.
48. P. Mas-Buitrago, A. González-Marcos, E. Solano, V. M. Passegger, et al. (incl. C. Cifuentes^{1,2}). “Using autoencoders and deep transfer learning to determine the stellar parameters of 286 CARMENES M dwarfs”. *Astronomy & Astrophysics*, 687, A205.
47. E. Goffo, P. Chaturvedi, F. Murgas, G. Morello, et al. (incl. C. Cifuentes^{1,2}). “TOI-4438 b: a transiting mini-Neptune amenable to atmospheric characterization”. *Astronomy & Astrophysics*, 685, A147.
46. S. Dreizler, R. Luque, I. Ribas, V. Koseleva, et al. (incl. C. Cifuentes^{1,2}). “Teegarden’s Star revisited: A nearby planetary system with at least three planets”. *Astronomy & Astrophysics*, 685, A117.
45. F. Llorente de Andrés, R. de la Reza, R., P. Cruz, D. Cuenda-Muñoz, E. J. Alfaro, C. Chavero, C. Cifuentes^{1,2}. “The evolution of lithium in FGK dwarf stars. Influence of planets and Galactic migration”. *Astronomy & Astrophysics*, 684, A28.
44. Y. Shan, D. Revilla, S. L. Skrzypinski, S. Dreizler, et al. (incl. C. Cifuentes^{1,2}). “CARMENES input catalog of M dwarfs: VII. New rotation periods for the survey stars and their correlations with stellar activity”. *Astronomy & Astrophysics*, 684, A9.
43. M. Mallorquín, E. Goffo, E. Pallé, N. Lodieu, et al. (incl. C. Cifuentes^{1,2}). “TOI-1801 b: a temperate mini-Neptune around a young M0.5 dwarf”. *Astronomy & Astrophysics*, 680, A76.
42. P. Gorrini, J. Kemmer, S. Dreizler, R. Burn, T. Hirano, et al. (incl. C. Cifuentes^{1,2}). “Planetary companions orbiting the M dwarfs GJ 724 and GJ 3988 A CARMENES and IRD collaboration”. *Astronomy & Astrophysics*, 680, A28.
41. E. Pallé, J. Orell-Miquel, M. Brady, J. Bean, A. P. Hatzes, et al. (incl. C. Cifuentes^{1,2}). “GJ 806 (TOI-4481): A bright nearby multi-planetary system with a transiting hot, low-density super-Earth”. *Astronomy & Astrophysics*, 678, A80.
40. J. Orell-Miquel, M. Lampón, M. López-Puertas, M. Mallorquín, et al. (incl. C. Cifuentes^{1,2}). “Confirmation of an He I evaporating atmosphere around the 650-Myr-old sub-Neptune HD 235088 b (TOI-1430 b) with CARMENES”. *Astronomy & Astrophysics*, 677, A56.
39. E. González-Álvarez, M. R. Zapatero Osorio, V. J. S. Béjar, C. Cifuentes^{1,2}, et al. “Two sub-Neptunes around the M dwarf TOI-1470”. *Astronomy & Astrophysics*, 675, A177.
38. E. González-Álvarez, J. Kemmer, P. Chaturvedi, J. A. Caballero, et al. (incl. C. Cifuentes^{1,2}). “The CARMENES search for exoplanets around M dwarfs. A sub-Neptunian mass planet in the habitable zone of HN Lib”. *Astronomy & Astrophysics*, 675, A141.

37. A. Bello-García, V. M. Passegger, J. Ordieres-Meré, A. Schweitzer, et al. (incl. **C. Cifuentes**^{1,2}). “The CARMENES search for exoplanets around M dwarfs—A deep transfer learning method to determine T_{eff} and $[M/H]$ of target stars”. *Astronomy & Astrophysics*, 673, A105.
36. R. de la Reza, C. Chavero, S. Roca-Fábrega, F. Llorente de Andrés, P. Cruz, and **C. Cifuentes**^{1,2,3}. “Searching for the nature of stars with debris disks and planets”. *Astronomy & Astrophysics*, 671, A136.
35. J. Blanco-Pozo, M. Perger, M. Damasso, G. Anglada Escudé, et al. (incl. **C. Cifuentes**^{1,2}). “The CARMENES search for exoplanets around M dwarfs. A long-period planet around GJ 1151 measured with CARMENES and HARPS-N data”. *Astronomy & Astrophysics*, 671, A50.
34. I. Ribas, A. Reiners, M. Zechmeister, J. A. Caballero, et al. (incl. **C. Cifuentes**^{1,2,3}). “The CARMENES search for exoplanets around M dwarfs. Guaranteed Time Observations Data Release 1 (2016–2020)”. *Astronomy & Astrophysics*, 670, A139.
33. D. Kossakowski, M. Kürster, T. Trifonov, T. Henning, et al. (incl. **C. Cifuentes**^{1,2}). “The CARMENES search for exoplanets around M dwarfs, Wolf 1069 b: Earth-mass planet in the habitable zone of a nearby, very low-mass star”. *Astronomy & Astrophysics*, 670, A84.
32. M. Damasso, M. Perger, J. M. Almenara, D. Nardiello, et al. (incl. **C. Cifuentes**^{1,2}). “A quarter century of spectroscopic monitoring of the nearby M dwarf Gl 514. A super-Earth on an eccentric orbit moving in and out of the habitable zone”. *Astronomy & Astrophysics*, 666, A187.
31. P. Chaturvedi, P. bluhm, E. Nagel, A. P. Hatzes, et al. (incl. **C. Cifuentes**^{1,2}). “TOI-1468: A system of two transiting planets, a super-Earth and a mini-Neptune, on opposite sides of the radius valley”. *Astronomy & Astrophysics*, 666, A155.
30. R. Luque, G. Nowak, T. Hirano, D. Kossakowski, et al. (incl. **C. Cifuentes**^{1,2}). “Precise mass determination for the keystone sub-Neptune planet transiting the mid-type M dwarf G 9-40”. *Astronomy & Astrophysics*, 666, A154.
29. D. Kossakowski, M. Küster, Th. Henning, T. Trifonov, et al. (incl. **C. Cifuentes**^{1,2}). “The CARMENES search for exoplanets around M dwarfs. Stable radial-velocity variations at the rotation period of AD Leonis: A test case study of current limitations to treating stellar activity”. *Astronomy & Astrophysics*, 666, A143.
28. J. A. Caballero, E. González-Alvarez, M. Brady, T. Trifonov, T. G. Ellis, C. Dorn, **C. Cifuentes**^{1,2,4}, et al. “A detailed analysis of the Gl 486 planetary system”. *Astronomy & Astrophysics*, 665, A120.
27. S. V. Jeffers, J. R. Barnes, P. Schöfer, A. Quirrenbach, et al. (incl. **C. Cifuentes**^{1,2}). “The CARMENES search for exoplanets around M dwarfs: Benchmarking the impact of activity in high-precision radial velocity measurements”. *Astronomy & Astrophysics*, 663, A27.
26. J. Kemmer, S. Dreizler, D. Kossakowski, S. Stock, et al. (incl. **C. Cifuentes**^{1,2}). “Discovery and mass measurement of the hot, transiting, Earth-sized planet, GJ 3929 b”. *Astronomy & Astrophysics*, 659, A17.
25. N. Espinoza, E. Pallé, J. Kemmer, R. Luque, J. A. Caballero, **C. Cifuentes**^{1,2}, et al. “A Transiting, Temperate Mini-Neptune Orbiting the M Dwarf TOI-1759 Unveiled by TESS”. *The Astronomical Journal*, 163, 133.
24. E. Marfil, H. M. Taberner, D. Montes, J. A. Caballero, et al. (incl. **C. Cifuentes**^{1,2}). “The CARMENES search for exoplanets around M dwarfs. Stellar atmospheric parameters of target stars with SteParSyn”. *Astronomy & Astrophysics*, 656, A162.
23. D. Kossakowski, J. Kemmer, P. Bluhm, S. Stock, J. A. Caballero, et al. (incl. **C. Cifuentes**^{1,2}). “TOI-1201 b: A mini-Neptune transiting a bright and moderately young M dwarf”. *Astronomy & Astrophysics*, 656, A124.
22. S. Roca-Fábrega, F. Llorente de Andrés, C. Chavero, **C. Cifuentes**^{1,3}, and R. de la Reza. “The bi-modal ⁷Li distribution of the Milky Way’s thin-disk dwarf stars. The role of Galactic-scale events and stellar evolution”. *Astronomy & Astrophysics*, 656, A24.
21. F. Llorente de Andrés, C. Chavero, R. de la Reza, S. Roca-Fábrega, **C. Cifuentes**^{1,3,4}. “The evolution of lithium in FGK dwarf stars: The Li rotation connection and the Li desert”. *Astronomy & Astrophysics*, 654, A137.

20. V. Perdelwitz, M. Mittag, L. Tal-Or, J. H. M. M. Schmitt, et al. (incl. **C. Cifuentes**^{1,3}). “CARMENES input catalog of M dwarfs VI. A time-resolved Ca II H&K catalog from archival data”. *Astronomy & Astrophysics*, 652, A116.
19. P. J. Amado, F. F. Bauer, C. Rodríguez López, E. Rodríguez, et al. (incl. **C. Cifuentes**^{1,2}). “The CARMENES search for exoplanets around M dwarfs. Two terrestrial planets orbiting G 264-012 and one terrestrial planet orbiting Gl 393”. *Astronomy & Astrophysics*, 650, A188.
18. T. Trifonov, J. A. Caballero, J. C. Morales, A. Seifahrt, I. Ribas, et al. (incl. **C. Cifuentes**^{1,2}). “A nearby transiting rocky exoplanet that is suitable for atmospheric investigation”. *Science*, 371, 6533, 1038-1041.
17. S. Dreizler, M. Crossfield, D. Kossakowski, P. Plavchan, S. Jeffers, et al. (incl. **C. Cifuentes**^{1,2}). “The CARMENES search for exoplanets around M dwarfs-LP 714-47b (TOI 442.01): Populating the Neptune desert”. *Astronomy & Astrophysics*, 644, A127.
16. J. Kemmer, S. Stock, D. Kossakowski, A. Kaminski, et al. (incl. **C. Cifuentes**^{1,2}). “Discovery of a hot, transiting, Earth-sized planet and a second temperate, non-transiting planet around the M4 dwarf GJ 3473 (TOI-488)”. *Astronomy & Astrophysics*, 642, A236.
15. G. Nowak, R. Luque, H. Parviainen, E. Pallé, K. Molaverdikhani, et al. (incl. **C. Cifuentes**^{1,2}). “The CARMENES search for exoplanets around M dwarfs. Two planets on opposite sides of the radius gap transiting the nearby M dwarf LTT 3780”. *Astronomy & Astrophysics*, 642, A173.
14. **C. Cifuentes**, J. A. Caballero, M. Cortés-Contreras, D. Montes, et al. “The CARMENES input catalogue of M dwarfs. V. Luminosities, colours, and spectral energy distributions”. *Astronomy & Astrophysics*, 642, A115.
13. D. Baroch, J. C. Morales, I. Ribas, E. Herrero, A. Rosich, et al. (incl. **C. Cifuentes**¹). “The CARMENES search for exoplanets around M dwarfs. Convective shift and starspot constraints from chromatic radial velocities”. *Astronomy & Astrophysics* 641, A69.
12. P. Bluhm, R. Luque, N. Espinoza, E. Pallé, J. A. Caballero, et al (incl. **C. Cifuentes**^{1,2}). “Precise mass and radius of a transiting super-Earth planet orbiting the M dwarf TOI-1235: a planet in the radius gap?”. *Astronomy & Astrophysics* 639, A132.
11. E. Pallé, S. Nortmann, N. Casasayas-Barris, M. Lampón, et al. (incl. **C. Cifuentes**^{1,2}). “A He I upper atmosphere around the warm Neptune in GJ 3470 b”. *Astronomy & Astrophysics* 638, A61.
10. H. Martínez-Rodríguez, J. A. Caballero, **C. Cifuentes**^{1,2,3}, A. L. Piro, and R. Barnes. “Exomoons in the habitable zones of M dwarfs”. *The Astrophysical Journal*, 887, 2, 261.
9. J. C. Morales, A. J. Mustill, I. Ribas, M. B. Davies, A. Reiners, et al. (incl. **C. Cifuentes**^{1,2}). “A giant exoplanet around a very low mass star challenging formation models”. *Science*, 365, 6460, 1441-1445.
8. M. Zechmeister, S. Dreizler, I. Ribas, A. Reiners, J. A. Caballero, et al. (incl. **C. Cifuentes**^{1,2}). “The CARMENES search for exoplanets around M dwarfs. Two temperate Earth-mass planet candidates around Teegardens star”. *Astronomy & Astrophysics*. 627, A49.
7. A. Schweitzer, V. M. Passeger, **C. Cifuentes**^{1,2,3}, V. J. S. Béjar, et al. “The CARMENES search for exoplanets around M dwarfs. Radii and masses of the target stars”. *Astronomy & Astrophysics* 625, A68.
6. R. González-Peinado, J. A. Caballero, D. Montes, and **C. Cifuentes**^{1,3}. “Cool dwarfs in wide multiple systems: A curious quintuple system of a compact sun-like triple and a close M dwarf-white dwarf pair at a wide separation”. *The Observatory*, Vol. 138, p. 292-298.
5. A. Kaminski, T. Trifonov, J. A. Caballero, A. Quirrenbach, I. Ribas, et al. (incl. **C. Cifuentes**^{1,2}). “The CARMENES search for exoplanets around M dwarfs. A Neptune-mass planet traversing the habitable zone around HD 180617”. *Astronomy & Astrophysics*, 618, A115.
4. A. Reiners, M. Zechmeister, J. A. Caballero, I. Ribas, J. C. Morales, et al. (incl. **C. Cifuentes**^{1,3}). “The CARMENES search for exoplanets around M dwarfs. High-resolution optical and near-infrared spectroscopy of 324 survey stars”. *Astronomy & Astrophysics*, 612, A49.

3. T. Trifonov, M. Kürster, M. Zechmeister, L. Tal-Or, J. A. Caballero, et al. (incl. C. Cifuentes^{1,2}). “The CARMENES search for exoplanets around M dwarfs. First visual–channel radial-velocity measurements and orbital parameter updates of seven M-dwarf planetary systems”. *Astronomy & Astrophysics*, 609, A117.
2. A. Reiners, I. Ribas, M. Zechmeister, J. A. Caballero, et al. (incl. C. Cifuentes^{1,2}). “The CARMENES search for exoplanets around M dwarfs. HD 147379 b: A nearby Neptune in an early-M dwarf’s temperate zone”. *Astronomy & Astrophysics*, 609, A49.

B.2 Publications without peer review process

11. C. Cifuentes. “Astrophysical parameters of M dwarfs with exoplanets”. PhD Thesis, Universidad Complutense de Madrid.
10. C. Cifuentes, J. A. Caballero, M. Cortés-Contreras, D. Montes, and the Carmenes Consortium. “Luminosities of cool stars”. The Star-Planet Connection, Online Workshop.
9. Y. Shan, A. Reiners, P. J. Amado, V. J. S. Béjar, J. A. Caballero, C. Cifuentes², and the Carmenes Consortium. “CARMENES and the Frontiers of High-Resolution Spectroscopy for M dwarfs”. *Plato Online Mission Conference 2021*.
8. C. Cifuentes, J. A. Caballero, and S. Agustí. “One Is the Loneliest Number: Multiplicity in Cool Dwarfs”. *Research Notes of the AAS*, Vol. 5, Number 5.
7. E. Marfil, H. M. Tabernerero, D. Montes, J. A. Caballero, F. J. Lázaro-Barrasa, et al. (incl. C. Cifuentes^{2,3}). “Stellar atmospheric parameters of CARMENES GTO M dwarfs with spectral synthesis and SteParSyn”. *The 20.5th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun (CS20.5)*. Virtually anywhere.
6. A. Quirrenbach, and the CARMENES Consortium (incl. C. Cifuentes²). “The CARMENES M-dwarf planet survey”. *Proceedings of the SPIE*, Vol. 11447, id. 114473C. Ground-based and Airborne Instrumentation for Astronomy. SPIE Astronomical Telescopes + Instrumentation 2020 Digital Forum. Online.
5. C. Cifuentes, J. A. Caballero, M. Cortés-Contreras, D. Montes, F. J. Abellán, et al. “Colours and luminosities of M dwarfs in the CARMENES input catalogue”. *Contributions to the XIV.0 Scientific Meeting (virtual) of the Spanish Astronomical Society*. Online.
4. M. Cortés-Contreras, A. J. Domínguez-Fernández, J. A. Caballero, et al. (incl. C. Cifuentes²). “Kinematics of M dwarfs in the CARMENES input catalogue”. *Contributions to the XIV.0 Scientific Meeting (virtual) of the Spanish Astronomical Society*. Online.
3. S. Roca-Fàbrega, F. Llorente de Andrés, C. Cifuentes^{1,3}, C. Chavero, R. de la Reza and B. Montesinos. “The bimodal A(Li) distribution of Milky Way’s thin disk stars and the Galactic scale events” *Contributions to the XIV.0 Scientific Meeting (virtual) of the Spanish Astronomical Society*. Online.
2. C. Cifuentes, J. A. Caballero, M. Cortés-Contreras, D. Montes, A. Schweitzer, I. Ribas, P. J. Amado, and the CARMENES Consortium. “Spectral energy distributions and luminosities of M dwarfs in the CARMENES search for exoplanets”. *Proceedings of the XIII Scientific Meeting of the Spanish Astronomical Society*. Highlights on Spanish Astrophysics X. Salamanca, Spain.
1. A. Quirrenbach, P. J. Amado, I. Ribas, A. Reiners, J. A. Caballero, et al. (incl. C. Cifuentes²). “CARMENES: high-resolution spectra and precise radial velocities in the red and infrared”. *Proceedings of the SPIE*, Vol. 10702, id. 107020W. SPIE Astronomical Telescopes + Instrumentation. Austin, Texas, USA.

B.3 Conference Proceedings

15. M. Cortés-Contrera, J. A. Caballero, D. Montes, C. Cardona-Guillén, V. J. S. Béjar, C. Cifuentes, et al. “Kinematics, activity and youth in the CARMENES input catalogue of M dwarfs”. *Proceedings of the XVI Scientific Meeting of the Spanish Astronomical Society* Highlights of Spanish Astrophysics XII. Granada, Spain
14. J. González-Payo, J. A. Caballero, J. Gorgas, M. Cortés-Contreras, M. C. Gálvez-Ortiz, and C. Cifuentes “Multiplicity of stars with planets”. *Ibid*.

13. J. A. Caballero, C. Cifuentes, M. Cortés-Contreras, D. Montes, P. J. Amado, V. J. S. Béjar, et al. “Carmencita: Know thy star, know thy planet”. *Ibid.*
12. J. A. Caballero, M. Capilla, M. A. Corbinos, I. Encinas, J. Miranzo, S. Turrado, and C. Cifuentes. “ARTof-COSMOS: aprendiendo a comunicar la astronomía al público”. *Ibid.*
11. C. Cifuentes, J. A. Caballero, M. Cortés-Contreras, D. Montes, et al. “About the multiplicity of M dwarfs”. *Proceedings of the XV Scientific Meeting of the Spanish Astronomical Society*, September 4–9, 2022.
10. C. Cifuentes and J. A. Caballero. “Music and astronomy. IV. The Astrophysical Brothers”. *Ibid.*
9. C. Cifuentes, J. A. Caballero, M. Cortés-Contreras, D. Montes, and the Carmenes Consortium. “Luminosities of cool stars”. *The Star-Planet Connection, On-line Workshop*, October 25–28, 2021.
8. Y. Shan, A. Reiners, P. J. Amado, V. J. S. Béjar, J. A. Caballero, C. Cifuentes, and the Carmenes Consortium. “CARMENES and the Frontiers of High-Resolution Spectroscopy for M dwarfs”. *Plato Online Mission Conference 2021*, October, 2021.
7. E. Marfil, H. M. Tabernero, D. Montes, J. A. Caballero, F. J. Lázaro-Barrasa, et al. (incl. C. Cifuentes). “Stellar atmospheric parameters of CARMENES GTO M dwarfs with spectral synthesis and SteParSyn”. *The 20.5th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun (CS20.5)*. Virtually anywhere. March 2–4, 2021. (2, 3)
6. A. Quirrenbach, and the CARMENES Consortium (incl. C. Cifuentes). “The CARMENES M-dwarf planet survey”. *Proceedings of the SPIE*, Vol. 11447, id. 114473C. Ground-based and Airborne Instrumentation for Astronomy. SPIE Astronomical Telescopes + Instrumentation 2020 Digital Forum. Online. December 14–18, 2020.
5. C. Cifuentes, J. A. Caballero, M. Cortés-Contreras, D. Montes, F. J. Abellán, et al. “Colours and luminosities of M dwarfs in the CARMENES input catalogue”. *Contributions to the XIV.0 Scientific Meeting (virtual) of the Spanish Astronomical Society*. Online. July 13–15 2020.
4. M. Cortés-Contreras, A. J. Domínguez-Fernández, J. A. Caballero, D. Montes, C. Cardona, V. J. S. Béjar, C. Cifuentes, et al. “Kinematics of M dwarfs in the CARMENES input catalogue”. *Ibid.*
3. S. Roca-Fábraga, F. Llorente de Andrés, C. Cifuentes, C. Chavero, R. de la Reza and B. Montesinos. “The bimodal A(Li) distribution of Milky Way’s thin disk stars and the Galactic scale events”. *Ibid.*
2. C. Cifuentes, J. A. Caballero, M. Cortés-Contreras, D. Montes, A. Schweitzer, I. Ribas, P. J. Amado, and the CARMENES Consortium. “Spectral energy distributions and luminosities of M dwarfs in the CARMENES search for exoplanets”. *Proceedings of the XIII Scientific Meeting of the Spanish Astronomical Society*. Highlights on Spanish Astrophysics X. Salamanca, Spain. 16–20 July, 2018.
1. A. Quirrenbach, P. J. Amado, I. Ribas, A. Reiners, J. A. Caballero, et al. (incl. C. Cifuentes). “CARMENES: high-resolution spectra and precise radial velocities in the red and infrared”. *Proceedings of the SPIE*, Vol. 10702, id. 107020W. SPIE Astronomical Telescopes + Instrumentation. Austin, Texas, USA. 10–15 June, 2018.

B.4 VizieR Online Data Catalogues

31. **Multiplicity of stars with planets** (González-Payo+, 2024)
30. **GJ 581 RVs and activity indices** (von Stauffenberg+, 2024)
29. **Stellar parameters of 286 CARMENES M dwarfs** (Mas-Buitrago+, 2024)
28. **HN Lib radial velocities** (González-Álvarez+, 2023)
27. **GJ 724 and GJ 3988 RV timeseries** (Gorrini+, 2023)
26. **Deep Transfer Learning of T_{eff} and $[M/H]$** (Bello-García+, 2023)
25. **Stars with debris disks and planets** (de la Reza+, 2023)
24. **GJ 1151 CARMENES and HARPS-N data** (Blanco-Pozo+, 2023)

23. **Wolf 1069 RV and stellar activity indices** (Kossakowski+, 2023)
22. **CARMENES search for exoplanets around M dwarfs** (Ribas+, 2023)
21. **AD Leo RV and stellar activity indices** (Kossakowski+, 2022)
20. **TOI-1468 photometry and radial velocities** (Chaturvedi+, 2022)
19. **VRI photometry and radial velocity of TOI-1759** (Espinoza+, 2022)
18. **Gl514 RVs and Activity diagnostics** (Damasso+, 2022)
17. **GJ 3929 b RVs and activity indicators** (Kemmer+, 2022)
16. **CARMENES stellar atmospheric parameters** (Marfil+, 2021)
15. **TOI-1201 RV and activity index** (Kossakowski+, 2021)
14. **Evolution of Li in FGK dwarf stars** (Llorente de Andrés+, 2021)
13. **CARMENES time-resolved CaII H&K catalog** (Perdelwitz+, 2021)
12. **G 264-012 and Gl 393 radial velocity curves** (Amado+, 2021)
11. **LP 714-47 (TOI 442) radial velocity curve** (Dreizler+, 2020)
10. **GJ 3473 (TOI-488) radial velocity curve** (Kemmer+, 2020)
9. **CARMENES input catalogue of M dwarfs. V** (Cifuentes+, 2020)
8. **Compilation of planets around M dwarfs** (Martínez-Rodríguez+, 2019)
7. **GJ 3512 radial velocity and light curves** (Morales+, 2019)
6. **Teegarden’s Star RV and H α curves** (Zechmeister+, 2019)
5. **Radii and masses of the CARMENES targets** (Schweitzer+, 2019)
4. **A Neptune-mass planet traversing the habitable zone around HD 180617** (Kaminski+, 2018)
3. **324 CARMENES M dwarfs velocities** (Reiners+, 2018)
2. **CARMENES radial velocity curves of 7 M-dwarf** (Trifonov+, 2018)
1. **HD147379 b velocity curve** (Reiners+, 2018)

B.5 Circulars

1. P. Bacci, M. Mastrapieri, M. Facchini, M. D. Grazia, L. Tesi, et al. (incl. **C. Cifuentes**^{5:Observer of ToO}). “**MPEC 2020-A99: 2020 AV2**”. *Minor Planet Electronic Circulars*, No. 2020-A99. January 2020.

B.6 Book chapters and sections

1. *100 Conceptos de Astrobiología*, D. Barrado Navascués and S. Cabañero, and 50+ coauthors. Ed. INTA-CSIC (2022).

C Outreach

The symbols indicate oral (●) and poster (○) contributions.

- **Congresses and conferences:** ●○ *Spanish Astronomical Society XV Meeting*, Tenerife, Spain (Sep 2022); ○ *Cool Stars 21*, Toulouse, France (Jun 2022); *The Star-Planet Connection*, ESO, online (Oct 2021); ○ *CAP 2021: Communicating Astronomy with the Public 2021*, IAU, online (May 2021); ○○ *Cool Stars 20.5 Virtual Meeting*, online (Mar 2021); ○○ *Spanish Astronomical Society XIV.0 Meeting*, online (Jul 2020); ○ *European Astronomical Society Annual Meeting*, online (Jul 2020); *1st meeting of the Spanish exoplanet network (Exonet)*, Granada, Spain (Feb 2019); ● *Present and future science with CARMENES (RIA)*, Granada, Spain (Feb 2019); ○ *Encuentro RIA-SpaceTec: Instrumentación astronómica en España*, Madrid, Spain (Oct 2018); ○○ *Spanish Astronomical Society XIII Meeting*, Salamanca, Spain (Jul 2018).

- **CARMENES scientific meetings:** • 16th: Göttingen, Germany (Jun 2022); 15th: *Endor/online* (Nov 2021); 14th: *Hoth/online* (May 2021); 13th: *Tatooine/online* (Nov 2020); 12th: *Arrakis/online* (Mar 2020); • 11th: Weimar, Germany (Nov 2019); • 10th: Seville, Spain (Nov 2019); • 9th: Barcelona, Spain (May 2019); 6th: Madrid, Spain (Apr 2017).
- **Schools, Workshops & Summer courses:** *Writing Better Research Papers and Proposals*, online (Nov 2023); *ESA's Madrid–Area Exoplanets Science Meeting (MAESM)*, Madrid, Spain (Oct 2022); *First Severo Ochoa IAA (SO-IAA) Workshop on scientific writing and oral presentations in astronomy*, Madrid, Spain (Sep 2020); *I Jornada de Invierno de Astrobiología*, Madrid, Spain (Jan 2020); *Machine learning and applications to physics (IPARCOS)*, Madrid, Spain (Dec 2019); *Cursos de Verano de El Escorial: 20 Años de Astrobiología en España*, Madrid, Spain (Jul 2019); *Gaia DR2 Exploration Lab*, Madrid, Spain (Jun 2018); *Virtual Observatory 11th School*, Madrid, Spain (May 2018); *Deep learning as a tool for scientific data analysis: Introduction and hands-on session*, Madrid, Spain (May 2018); *Aspectos metodológicos para el doctorado en el ámbito de las ciencias experimentales e ingenierías*, Madrid, Spain (Dec 2017); *ASTERICS VO School: Data Access, Discovery and Interoperability (DADI)*, Madrid, Spain (Nov 2017).
- **PhD-related events:** *II Jornadas para Doctorandos del CSIC*, online (Oct 2020); • *I Jornadas para Doctorandos del CSIC*, online (Jun 2019); • *Concurso “Tesis en 3 minutos”*, Madrid, Spain (Apr 2019); *Jornadas de Doctorandos UCM*, Madrid, Spain (Mar 2019); • *PhDay 2018*, Madrid, Spain (Nov 2018); *PhDay 2017*, Madrid, Spain (Dec 2017).
- **Other talks (journals):** • *Astroquery and its secrets (PyCoffee)*, Madrid, Spain (Oct, 2024).
- **Poster contributions as a co-author (without attendance):** ○○○ *Spanish Astronomical Society XVI Meeting*, Granada, Spain (Jul 2024); ○○ *European Astronomical Society Meeting 2022*, Valencia, Spain (Jul 2022); ○ *The Star-Planet Connection workshop*, online (Oct 2021); ○○○○ *TESS Science Conference 2 (TSC2)*, online (Aug 2021); ○○○ *European Astronomical Society Meeting 2020*, online (Jul 2020); ○○ *Annual Meeting of the Astronomische Gesellschaft 2017*, Göttingen, Germany (Sep 2017).

D Observational experience

D.1 As principal investigator

The number of on-site nights at the telescope is indicated in [brackets].

1. *Identifying new M dwarfs spectroscopic binaries from Gaia RV data* (mid-res spectroscopy).
C. Cifuentes, J. A. Caballero, E. Marfil, et al.
8 nights with FIES @ NOT (86-NOT5/23A, 114-NOT16/22B) [2] and 5 service nights (fraction) with FIES @ NOT (114-NOT16/22B).
2. *Spectroscopy of poorly investigated late-type young stars in the sigma Orionis cluster*¹ (long-slit spectroscopy).
C. Cifuentes, J. A. Caballero, and A. De Burgos.
Four half nights with ISIS Red+ @ WHT (164-WHT7/19B) [4]

D.2 As co-principal investigator

1. *Calibrating the abundances of M dwarfs with wide visual binaries* (high-res spectroscopy).
C. Duque-Arribas, D. Montes, et al. (incl. C. Cifuentes).
 - 8 hours with SES @ STELLA (85-MULTIPLE-2/22B)
 - 3 nights with HERMES @ MERCATOR (85-MULTIPLE-2/22B)
 - 3.6 nights with CARMENES @ 3.5-m CAHA (23A-3.5-010)
 - 2.25 nights with CARMENES @ 3.5-m CAHA (23B-3.5-009)
2. *Formation origins of brown dwarfs from rotation rates* (image).
N. Lodieu, et al. (incl. C. Cifuentes).
5 nights with WFC @ INT (141-INT13/20B) [5]

¹To these observations corresponds the target of opportunity 2020 AV₂, the first and only known member of the inner-Venusian Vatira population of Atira-class asteroids (MPEC 2020-A99: 2020 AV₂).

3. *Optical spectroscopy of the only halo candidate in the CARMENES input catalogue* (long-slit spectroscopy). N. Lodieu, et al. (incl. **C. Cifuentes**).
5 nights with OSIRIS @ GTC (142-GTC107/21A)

D.3 Other relevant collaborations

1. **One night** (remote) with ESPRESSO @ 8-m VLT (Period 107) [1 (remote)]
M. R. Zapatero Osorio, E. González Álvarez, and **C. Cifuentes**.
2. **Two half nights** with CAFE @ 2.2-m CAHA (3–4 May 2017) [2]
Open clusters in Cygnus Superbubble: Ber 87 & IC 4996 (image and long-slit spectroscopy).
Part of the curricula in the MSc in Astrophysics.

E Academia

E.1 Degrees

- *Philosophiæ doctor* (PhD; Doctorado) – **Astrophysics** 2018–2023
Universidad Autónoma de Madrid Madrid, Spain

Thesis: “Astrophysical parameters of M dwarfs with exoplanets” • *Advisors:* Dr. José Antonio Caballero and Dr. Jorge Sanz Forcada • *Institutions:* Centro de Astrobiología (CAB, CSIC-INTA) and Max-Planck-Institut für Astronomie (MPIA).

- *Magister scientiæ* (MSc; Máster) – **Astrophysics** 2016–2017
Universidad Complutense de Madrid Madrid, Spain

Solar System and exoplanets • *Cool stars and substellar objects* • *Stellar atmospheres* • *Interstellar medium* • *Galactic formation and evolution* • *Astronomical instrumentation* • *Experimental techniques in astrophysics* • *Data analysis and statistical techniques*. (60 ECTS)

- *Magister scientiæ* (MSc; Máster) – **Renewable Energies** 2013–2014
Universidad Autónoma de Madrid Madrid, Spain

Wind and Solar power • *Hydropower* • *Geothermal Energy* • *Biomass* • *Nuclear Energy: Fission and Fusion* • *Energy Storage: Hydrogen, Fuel Cells* • *Energy conversion, transportation and storage* • *Bioclimatic architecture* • *Environment, energy economy and sustainable development*. (60 ECTS)

- *Baccalaureus scientiæ* (BSc; Licenciatura) – **Physics** 2007–2013
Universidad de Salamanca Salamanca, Spain

Specialization on Astrophysics and Earth Sciences (Climatology, Meteorology, Atmospheric thermodynamics and radiation). *Photonics and electronics*. (314 ECTS, Plan 1997)

E.2 Complementary courses

Programming, Data Science and OS

1. *Data Science: Productivity Tools* HarvardX, online (Dec 2018)
2. *Data Driven Astronomy with Python and SQL* University of Sidney, online (Dec 2017)
3. *Linux* Escuela Julián Besteiro, online (Mar 2011)
4. *Scientific Software in Mathematics: Mathematica and MATLAB* USAL, Salamanca (1–5 Jun 2009)

Astronomy and Astrophysics

1. *Cosmology* Australian National University, *online* (Mar 2016)
2. *Philosophy and the Sciences* University of Edinburgh, *online* (Nov 2015)
3. *The Science & Technology behind Astronomical Discovery* University of Edinburgh, *online* (Jul 2015)

Languages

1. *Inglés específico: presentaciones C1* Euroinnova, *online*, 30h (Oct–Nov 2020)
2. *English language immersion course* UIMP, Barcelona + Tenerife, 80h (Oct 2009 + Jun 2010)
3. *Upper-Intermediate Course in English* Servicio Central de Idiomas USAL, *Salamanca*, 60h (Sep 2011–Jan 2012)

Miscellanea

1. *Scopus* FECYT, *online*, 2h (Apr 18)
2. *Critical Thinking in Global Challenges* University of Edinburgh, *online* (Mar 2015)
3. *Wind Power: Fundamentals, technology and applications* CIEMAT, *online*, 50h (Dec 2014)
4. *Learning How to Learn* University of California, San Diego, *online* (Dec 2014)
5. *Fundamentals of Music Theory* University of Edinburgh, *online* (Sep 2014)

F Miscellanea

Volunteering

- Service at infopoints at the *2nd ESA Open Day*. 21 Oct 2023
- Reception, meet & greet & solar observation at the *1st ESA Open Day*. 26 Oct 2019
- General organization tasks at the *Spanish Astronomical Society XIII Meeting*. 16–20 Jul 2018
- Class representative in UCM Master's class (2016–2017).

Affiliations

- International Astronomical Union ([IAU](#)) (2024+).
- Red Española de Explotación Científica de *Gaia* ([REG](#)) (2022+).
- European Astronomical Society ([EAS](#)) (2021+).
- Sociedad Española de Astronomía ([SEA](#)) (2018+).
- Spanish Red Cross' Blood donor (2015+).

Additional experience

- Private classes (Mathematics, High school level).
- Telephone operator (*teleoperador*) in national and regional Spanish elections (2015–2016).

Other relevant information

- Professional qualifications: First Aids (July 2019).
- Driving License: B (2007+).

Astromusical projects

- Production of audiovisuals for two shows at *ESA Open Day 2023* (ESA) 21 Oct 2023
J. A. Caballero & C. Cifuentes (*The Astrophysical Brothers*)
- Collaboration at *El Universo Cultural* (RNE) 21 Aug 2022
Círculos Concéntricos, Radio Nacional de España
- Piano and bass guitar at *ESA Day 2022* (ESA) 22 Jun 2022
J. A. Caballero & C. Cifuentes, et al. (*The Astrophysical Brothers & Friends*)
- *Astromúsica's* playlist curation; support at *Diálogos en el Café Gijón* Mar–Apr 2022
for *Cultura con C de Cosmos: Vida* (C³)
- Piano, choirs and acting for *Fête de la Musique 2021* (ESA) 21 Jun 2021
J. A. Caballero & C. Cifuentes (*The Astrophysical Brothers*)
- *Astromúsica's* playlist curation for *Cultura con C de Cosmos* (C³) Oct 2018–Mar 2019
- Other untitled one-man band projects (e.g. *Colma/Syzygy*) 2020+

These and other contributions can be found in ccifuentesr.io/music and artofcosmos.com.