

Diego Godoy-Rivera

Curriculum Vitae

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ORCID, ADS Library

RESEARCH INTERESTS

- Stellar Rotation and Stellar Activity; Gyrochronology and Angular Momentum Evolution; Stellar Evolution
- Stellar Characterization (Photometric and Kinematic); Stellar Ages.
- Stellar Systems, Binary Stars, Open Clusters.

APPOINTMENTS

Juan de la Cierva Fellow Instituto de Astrofísica de Canarias (IAC)	March 2024 – Present
Postdoctoral Researcher Instituto de Astrofísica de Canarias (IAC)	November 2021 – August 2023

EDUCATION

Ph.D. in Astronomy Ohio State University (OSU), Advisor: Marc H. Pinsonneault Dissertation: <i>Exploring Gyrochronology with Precise Stellar Characterization</i>	August 2021
M.Sc. in Astronomy Ohio State University (OSU)	April 2018
B.Sc. in Astronomy Pontificia Universidad Católica de Chile (PUC), Advisor: Julio Chanamé	August 2014

HONORS AND AWARDS

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| • Juan de la Cierva Fellowship, Spanish MCIU and European Union “NextGenerationEU” | 2024-2026 |
| • Rodger Doxsey Travel Prize Honorable Mention, AAS 237th Meeting | 2021 |
| • Dean’s Distinguished University Dissertation Year Fellowship, OSU | 2020–2021 |
| • Dean’s Distinguished University Fellowship, OSU | 2015–2017 |
| • 1st Place in Graduating Astronomy Class, PUC | 2014 |
| • Scholarship “Matrícula de Honor” (highest annual GPA), PUC | 2013 |
| • Scholarship “Matrícula de Honor” (highest annual GPA), PUC | 2012 |

PUBLICATIONS ([LINK TO ADS LIBRARY](#)) (23 TOTAL, 4 FIRST AUTHOR, *h*-INDEX=11)

First Author

1. *Stellar Rotation in the Gaia Era: Revised Open Clusters’ Sequences*
Godoy-Rivera, D., Pinsonneault, M. H., & Rebull, L. M. 2021, ApJS, 257, 46

2. *Testing the Limits of Precise Subgiant Characterization with APOGEE and Gaia: Opening a Window to Unprecedented Astrophysical Studies*
Godoy-Rivera, D., Tayar, J., Pinsonneault, M. H., et al. 2021, ApJ, 915, 19
3. *On the identification of wide binaries in the Kepler field*
Godoy-Rivera, D., & Chanamé, J. 2018, MNRAS, 479, 4440
4. *The unexpected, long-lasting, UV rebrightening of the superluminous supernova ASASSN-15lh*
Godoy-Rivera, D., Stanek, K. Z., Kochanek, C. S., et al. 2017, MNRAS, 466, 1428

Significant Contribution

1. *Magnetic activity of red giants: correlation between the amplitude of solar-like oscillations and chromospheric indicators*
 Gehan, C., **Godoy-Rivera, D.**, & Gaulme, P. 2024, accepted for publication in A&A
2. *Kepler main-sequence solar-like stars: surface rotation and magnetic-activity evolution*
 Santos, Á. R. G., **Godoy-Rivera, D.**, Finley, A. J., et al. 2024, Front. Astron. Space Sci., 11, 1356379
3. *The breakdown of current gyrochronology as evidenced by old coeval stars*
 Silva-Beyer, J., **Godoy-Rivera, D.**, & Chanamé, J. 2023, MNRAS, 523, 5947

Co-Author

1. *Constraining stellar and orbital co-evolution through ensemble seismology of solar-like oscillators in binary systems. A census of oscillating red giants and dwarf stars in Gaia DR3 binaries*
 Beck, P. G., et al. incl. **Godoy-Rivera, D.**, 2024, A&A, 682, A7
2. *Stellar spectral-type (mass) dependence of the dearth of close-in planets around fast-rotating stars. Architecture of Kepler confirmed single-exoplanet systems compared to star-planet evolution models*
 García, R. A., et al. incl. **Godoy-Rivera, D.**, 2023, A&A, 679, L12
3. *Asteroseismology and Spectropolarimetry of the Exoplanet Host Star λ Serpentis*
 Metcalfe, T. S., et al. incl. **Godoy-Rivera, D.**, 2023, AJ, 166, 167
4. *Magnetic Activity Evolution of Solar-like Stars: I. Sph-Age Relation Derived from Kepler Observations*
 Mathur, S., et al. incl. **Godoy-Rivera, D.**, 2023, ApJ, 952, 131
5. *TOI-1416: A system with a super-Earth planet with a 1.07d period*
 Deeg, H. J., et al. incl. **Godoy-Rivera, D.**, 2023, A&A, 677, A12
6. *Multi-campaign Asteroseismic Analysis of eight Solar-like pulsating stars observed by the K2 mission*
 González-Cuesta, L., et al. incl. **Godoy-Rivera, D.**, 2023, A&A, 674, A106
7. *Temporal variation of the photometric magnetic activity for the Sun and Kepler solar-like stars*
 Santos, A. R. G., et al. incl. **Godoy-Rivera, D.**, 2023, A&A, 672, A56
8. *The Origin of Weakened Magnetic Braking in Old Solar Analogs*
 Metcalfe, T. S., et al. incl. **Godoy-Rivera, D.**, 2022, ApJL, 933, L17
9. *Rotation Distributions around the Kraft Break with TESS and Kepler: The Influences of Age, Metallicity, and Binarity*
 Avallone, E. A., et al. incl. **Godoy-Rivera, D.**, 2022, ApJ, 930, 7
10. *Close substellar-mass companions in stellar wide binaries: Discovery and characterization with APOGEE and Gaia DR2*
 Lewis, H. M., et al. incl. **Godoy-Rivera, D.**, 2022, MNRAS, 509, 3355
11. *The Seventeenth Data Release of the Sloan Digital Sky Surveys: Complete Release of MaNGA, MaStar and APOGEE-2 Data*
 Abdurro'uf, et al. incl. **Godoy-Rivera, D.**, 2022, ApJS, 259, 35

12. *Stellar multiplicity and stellar rotation: Insights from APOGEE*
Mazzola Daher, C., et al. incl. **Godoy-Rivera, D.**, 2022, MNRAS, 512, 2051
13. *LBT/PEPSI Spectropolarimetry of a Magnetic Morphology Shift in Old Solar-type Stars*
Metcalf, T. S. et al. incl. **Godoy-Rivera, D.**, 2019, ApJL, 887, L38
14. *The ASAS-SN bright supernova catalogue - III. 2016*
Holoiën, T. W. -S. et al. incl. **Godoy-Rivera, D.**, 2017, MNRAS, 471, 4966
15. *The ASAS-SN bright supernova catalogue - II. 2015*
Holoiën, T. W. -S. et al. incl. **Godoy-Rivera, D.**, 2017, MNRAS, 467, 1098
16. *ASASSN-15oi: a rapidly evolving, luminous tidal disruption event at 216 Mpc*
Holoiën, T. W. -S. et al. incl. **Godoy-Rivera, D.**, 2016, MNRAS, 463, 3813

PRESENTATIONS (CONFERENCES, SEMINARS AND WORKSHOPS)

- TASC7/KASC14 (Honolulu, USA). Poster. July 2023
- PLATO Stellar Science Conference 2023 (Milazzo, Italy). **Talk.** June 2023
- 9th Iberian Meeting on Asteroseismology (Valencia, Spain). **Talk.** October 2022
- XV Scientific Meeting of the Spanish Astronomical Society (La Laguna, Spain). **Poster.** September 2022
- TASC6/KASC13 (Leuven, Belgium). **Talk.** July 2022
- Cool Stars 21, Splinter “*What’s Up with Spin Down?*” (Toulouse, France). **Talk.** July 2022
- Fifty Years of the Skumanich Relations (Boulder, USA). **Talk.** March 2022
- Research Division Seminar, Instituto de Astrofísica de Canarias (La Laguna, Spain). **Talk.** February 2022
- 8th Iberian Meeting on Asteroseismology (Porto, Portugal). **Talk.** October 2021
- PLATO Mission Conference 2021 (Virtual). **Haiku** and **Poster.** October 2021
- Good Vibrations Seminars Series (Virtual). **Talk.** May 2021
- Cool Stars 20.5 (Virtual). **Haiku** and **Poster.** March 2021
- American Astronomical Society Meeting 237 (Virtual). **Thesis Talk.** January 2021
- SDSS-IV 2020 Collaboration Meeting (Virtual). **Talk.** June 2020
- Summer Undergraduate Research Program, OSU (Columbus, USA). **Talk.** June 2020
- Planet-Star Connections in the Era of *TESS* and *Gaia*, KITP UCSB (Santa Barbara, USA). **Poster.** May 2019
- 2nd OSU-PUC Workshop, PUC (Santiago, Chile). **Talk.** May 2016
- XII SOCHIAS Annual Meeting (Puerto Varas, Chile). **Poster.** March 2015
- 2nd National Congress of Astronomy Students, Universidad Santa María (Valparaíso, Chile). **Talk.** November 2014
- 1st OSU-PUC Workshop, OSU (Columbus, USA). **Attendee.** May 2014
- 1st National Congress of Astronomy Students, Universidad de Valparaíso (Valparaíso, Chile). **Attendee.** October 2012

ADVISING AND MENTORING

- Joaquín Silva-Beyer (PUC B.Sc. and M.Sc. Student) 2020–2023
Research paper published in MNRAS journal and **featured** in Scientific American.
- Graduate Mentor for Early Graduate Students, OSU 2020–2021
1 Mentee. Estimated time commitment: 1 hour/month.

SERVICE

- Referee for AAS Journals 2023
- Local Organizing Committee (LOC) for the 10th Iberian Meeting on Asteroseismology (Lanzarote, Spain) 2023
- Lead organizer of “*Stellar/Planetary Coffee*” (IAC and collaborators) 2022–2023
- Lead organizer of IAC’s Severo Ochoa “*Stars and ISM*” research line meetings 2022–2023
- Invited panelist in Curriculum Analysis for Universidad Autónoma de Sinaloa (Mexico) 2023

TEACHING EXPERIENCE

- Planetarium TA, OSU Spring 2018
- Head TA, OSU Fall 2017
- “*From Planets to the Cosmos*”, OSU: Laboratory TA and Planetarium Presenter Fall 2017
- “*Static and Dynamics*”, PUC: Class and Laboratory TA Spring 2013, Fall 2013, Spring 2015
- “*Electricity and Magnetism*”, PUC: Class TA Fall 2012
- “*General physics*”, PUC: Class TA Fall 2011, Spring 2012

OUTREACH EXPERIENCE

- Talk: Bellevue College, Washington, USA April 2024
- Talk: “*Semana de la Astronomía*” by Explora Atacama, Colegio San Agustín, Copiapó, Chile March 2023
- [Interview](#): Outreach Twitch Channel by Efrain Gatuzz December 2022
- Talk: “*XII Muestra Científica: Ruta Virtual de la Ciencia*”, American School, Puerto Montt, Chile October 2021
- [Talk](#): “*Charlas Equinoccio*”, “*Locos x Astrociencia*” Outreach Group September 2020
- [Interview](#): “*Ojos de Tigre*”, “*Imperfecto y Desconocido*” Outreach Youtube Channel April 2020
- [Arne Sletteback Planetarium Presenter](#), OSU 2018 and 2019
33 Planetarium shows given to the public and from elementary school to college undergraduate level.
- [Star Parties Roof Nights](#), OSU Spring 2018
Organizer and Monitor of 3 events with over 100 visitors each.
- [Física Itinerante Outreach Group](#), PUC 2013 and 2014
Bringing science to underprivileged schools. Held the Internal Coordinator position during 2013.
- [Explora/Conicyt](#): Public Astronomy Exhibitions 2011 and 2012
Visit guide in 10 events with over 80 visitors each.

MEMBERSHIPS

- International Astronomical Union 2022–Present
- American Astronomical Society 2021

PROFESSIONAL DEVELOPMENT

- “Gender Equality in Science” Course by Spanish Astronomical Society 2023–Present

PROFESSIONAL REFERENCES

- Dr. Savita Mathur (smathur@iac.es), Senior Scientist, Instituto de Astrofísica de Canarias.
- Prof. Marc H. Pinsonneault (pinsonneault.1@osu.edu), Ohio State University.
- Prof. Julio Chanamé (jchaname@astro.puc.cl), Pontificia Universidad Católica de Chile.
- Prof. Jamie Tayar (jtayar@ufl.edu), University of Florida