

# ÁLVARO RIBAS GÓMEZ

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## PERSONAL INFORMATION

*Address:* C/ La Bañeza 22 4º C  
37006 Salamanca, Spain  
*Date of Birth:* 29/09/1987  
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## EDUCATION

- PhD student at ESAC Nov 2012 - Present  
*Disk evolution in the solar neighborhood:* homogeneous multiwavelength study of protoplanetary disks in several nearby star-forming regions.
- M.Sc. Astrophysics Sep 2011 - July 2012
- B.Sc. Physics (Major: Astrophysics) Sep 2005 - Feb 2011  
[Universidad Complutense de Madrid](#). Last 2 academic years.  
[Universidad de Salamanca](#). First 3 academic years.
- High School Diploma in Science and Technology 2005

## PROFESSIONAL EXPERIENCE

- European Space Astronomy Centre (ESAC,ESA)** March 2011 - Oct 2012
  - HIPE Astronomer Acceptance Tester Oct 2011 - Oct 2012  
Contribution to the HIPE (Herschel Interactive Processing Environment) testing as part of the reduction process, photometry and study of some Gould's Belt star-forming regions.
  - Trainee at ESAC (Spain) March 2011 - Oct 2011  
*Study of Very Low Luminosity Protostars with Herschel Maps:* analysis of star-forming regions as probed by the PACS (Photodetector Array Camera and Spectrometer) and SPIRE (Spectral and Photometric Imaging Receiver) instruments of the *Herschel Space Observatory* to detect and analyze Young Stellar Objects and very low luminosity protostars.

## TEACHING & MENTORING EXPERIENCE

- Tutor of ESA traineeship project Jun 2014 - Dec 2014  
*Analysis of infrared data of exoplanet-forming transitional disks*  
Trainee: Isabel Rebollido Vázquez

## REFEREED PUBLICATIONS (FIRST AUTHOR)

- Á. Ribas et al, submitted:  
*Protoplanetary disk lifetimes as a function of stellar mass and possible implications for giant planet populations*
- Á. Ribas et al. 2014:  
*Disk evolution in the solar neighborhood. I. Disk frequencies from 1 to 100 Myr.*  
Published in A&A.
- Á. Ribas et al. 2013:  
*Identification of transitional disks in Chamaeleon with Herschel.*  
Published in A&A.
- Á. Ribas et al 2012:  
*Warm debris disks candidates in transiting planets systems.*  
Published in A&A.

REFEREED  
PUBLICATIONS  
(CO-AUTHOR)

- B. Merín et al. 2014:  
*Herschel/PACS photometry of transiting-planet host stars with candidate warm debris disks.*  
Published in A&A.
- C. Alves de Oliveira et al. 2014:  
*Herschel's view of the large-scale structure in the Chamaeleon dark clouds.*  
Published in A&A.
- L. Spezzi et al. 2013:  
*The Herschel Gould Belt Survey in Chamaeleon II. Properties of cold dust in disks around young stellar objects.*  
Published in A&A.
- L. Matrá et al. 2012:  
*A new Herschel view of the young star T54: not a transitional disk?*  
Published in A&A.
- E. Winston et al. 2012:  
*Herschel far-IR observations of the Chamaeleon molecular cloud complex. Chamaeleon I: A first view of young stellar objects in the cloud.*  
Published in A&A.
- A. Palau et al 2012.:  
*A search for pre-substellar cores and proto-brown dwarf candidates in Taurus: multiwavelength analysis in the B213-L1495 clouds.*  
Published in MNRAS.
- Á Kóspal et al. 2012:  
*The dusty environment of HD 97300 as seen by Herschel and Spitzer.*  
Published in A&A.

TALKS &  
CONFERENCE  
CONTRIBUTIONS

- Jet Propulsion Laboratory Luncheon Seminars (Pasadena, 2014)  
Talk: *Circumstellar Disks Get Old Too: from Protoplanetary to Debris Disks*
- 2014 Sagan Exoplanet Summer Workshop (CalTech, 2014)  
Poster: *Disk evolution in the solar neighborhood*
- Protoplanetary disks: theory and modeling meet observations (The Netherlands, 2014)  
Poster: *Disk evolution in the solar neighborhood*
- ESA 6th Inter-Departmental Science Workshop (Aranjuez, 2013)  
Talk: *Disk evolution in the solar neighborhood*
- Protostars and Planets VI (Heidelberg, 2013)  
Poster: *Evolution from Protoplanetary to Debris Disks*
- ESA Summer Alumni Trainee Meeting (ESAC, 2012)  
Talk: *Warm Debris Disks Candidates in Transiting Planets Systems*
- Europlanetary Science Congress (Madrid, 2012)  
Poster: *New Warm Debris Disks in Transiting Planets Systems*
- ESA Summer Alumni Trainee Meeting (ESAC, 2011)  
Talk: *Searching for low luminosity protostars with Herschel maps*
- HIPE forum (Garching, 2011)  
Invited speaker: *Cross-instrument photometric map extended source reduction*

WORKSHOPS	<p>ESAC data analysis and statistics workshop 2014 (ESAC, Madrid) - Member of the Scientific and Organizing committees, and participant</p> <p>3rd Scientific Writing for Young Astronomers (Hungary, 2014)</p> <p>2014 Sagan Exoplanet Summer Workshop (CalTech, 2014)</p> <p>Protoplanetary disks: theory and modeling meet observations (The Netherlands, 2014)</p> <p>ESAC Software Carpentry Bootcamp (ESAC, 2014)</p> <p>Saint Andrews Monte Carlo Summer School (St. Andrews, 2013)</p> <p>GREAT Astrostatistics School 2013 (Alicante, 2013)</p> <p>Astronomical programming in Python (ESAC, 2012)</p> <p>Herschel Open Time Cycle-1 Data Processing Workshop (ESAC, 2011)</p>
OBSERVING EXPERIENCE AND PROPOSALS	<p>Principal Investigator of three accepted proposals to observe with the Canaricam instrument at Gran Telescopio Canarias.</p> <p>Co-Investigator of two accepted Herschel Open Time 2 Proposals.</p> <p>Several observing runs (optical photometry and spectroscopy) at the Isaac Newton Telescope and William Herschel Telescope (Canary Islands).</p>
COMPUTER SKILLS	<p><b>Operating systems:</b> Linux, Mac OS, Windows.</p> <p><b>Programming languages:</b> Python (advanced level), Bash, PostgreSQL.</p> <p><b>Scientific software:</b></p> <ul style="list-style-type: none"> <li>– HIPE (Herschel Interactive Processing Enviroment) &amp; Scanamorphos</li> <li>– IRAF &amp; PyRAF</li> <li>– Sextractor</li> <li>– Aladin &amp; Topcat</li> <li>– IDL</li> </ul> <p><b>Other useful software:</b> L<sup>A</sup>T<sub>E</sub>X, Photoshop, Adobe Ilustrator,</p>
LANGUAGE SKILLS	<p><b>Spanish:</b> Mother tongue.</p> <p><b>English:</b> Certificate in Advanced English.</p> <p><b>German:</b> Basic level.</p>
RESEARCH INTERESTS	<p>Protoplanetary and debris disks, exoplanets planet-disk interactions, statistics, Bayesian analysis and data mining, data visualization.</p>
OTHER DATA	<p>Winner: Science Fiction short story contest ‘<i>III concurso de mini-relatos sobre Ciencia Ficción. Biblioteca de la facultad de CC. Físicas 2012</i>’</p> <p>Winner: Science Fiction short story contest ‘<i>I concurso de mini-relatos sobre Ciencia Ficción. Biblioteca de la facultad de CC. Físicas 2010</i>’</p> <p>2<sup>nd</sup> place: Science Fiction short story contest ‘<i>II concurso de mini-relatos sobre Ciencia Ficción. Biblioteca de la facultad de CC. Físicas 2011</i>’</p> <p>2<sup>nd</sup> place: Horror short story contest ‘<i>Concurso de relatos de terror Abismo</i>’</p> <p>Selected for publication: Horror short story contest ‘<i>IV Concurso de relatos de terror Aullidos.COM</i>’</p> <p>Selected: Photography contest ‘<i>Día del Libro 2008 Universidad de Palencia</i>’</p> <p><b>Interests:</b> reading, writing, music, photography, rock climbing, scuba diving, horse riding, fencing, illusionism.</p>