

# ÁLVARO RIBAS - CV

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**Research Interests** Protoplanetary and debris disks, exoplanets, radiative transfer modeling, statistics, Bayesian analysis and machine learning, data visualization.

**Positions**

ESO/ALMA FELLOW (ESO)	2018 - present
POSTDOCTORAL RESEARCHER (Boston University)	2015 - 2018
HIPE ASTRONOMER ACCEPTANCE TESTER (ESAC/ESA)	2011 - 2012
ESA TRAINEE (ESAC/ESAC)	2011

**Education**

PH.D., ASTROPHYSICS	2015
Universidad Autónoma de Madrid - European Space Astronomy Centre (ESA)	
Supervisors: Bruno Merín & Hervé Bouy	
Thesis: <i>Protoplanetary disk evolution in nearby star-forming regions</i>	
M.SC. ASTROPHYSICS	2012
Universidad Complutense de Madrid - Universidad Autónoma de Madrid	
B.SC. PHYSICS (MAJOR: ASTROPHYSICS)	2011
Universidad Complutense de Madrid - Universidad de Salamanca	

**Refereed Publications** As of April 2019 (see Publications List):  
Main author of eight publications (including one shared main authorship)  
Co-author of eighteen publications

**Fellowships & Awards**

ESO Fellowship (2018)
ESA Traineeship (2012)

**Presentations**

- ALMA Community Day	Joint ALMA Observatory/Chile, 2019
- *Summer Protoplanetary Disk Workshop 2019	ESO/Chile, 2019
- *Spanish Astronomical Society (SEA)	Salamanca/Spain, 2018
- *Regional Star Formation Meeting 2018	BU/USA, 2018
- *Boston Area Exoplanet Science Meeting	MIT/USA, 2017
- SMA Fellowship (invited talk)	CfA/USA, 2017
- CfA star-formation journal club (invited talk)	CfA/USA, 2017

- \*Regional Star Formation Meeting 2017 Yale/USA, 2017
  - \*Star Formation 2016 Exeter/UK, 2017
  - \*NRAO Live! Event at Boston University BU/USA, 2016
  - \*ALMA/Herschel Archival Workshop Garching/Germany, 2015
  - JPL Luncheon Seminar (invited talk) Pasadena/USA, 2014
  - ESA Inter-Departmental Science Workshop Aranjuez/Spain, 2013
  - ESA Summer Alumni Trainee Meeting ESAC/Spain, 2012
  - ESA Summer Alumni Trainee Meeting ESAC/Spain, 2011
  - \*HIPE forum Garching/Germany, 2011
- \*conferences denoted with asterisk*

<b>Teaching &amp; Research mentoring</b>	AS203 <i>Principles of Astronomy 2</i> Guest Lecturer (Boston University)	2018
	Mentoring:	
	- Sarah Luetngen (Undergraduate Student, Boston University)	2018
	- Evan Leto (Undergraduate Student, Boston University)	2016 - 2017
	- Amanda Reveles (Undergraduate Student, Boston University)	2016 - 2017
	- Isabel Rebollido (ESA trainee)	2014 - 2015
<b>Professional Service</b>	- Ignacio Bustamante (ESA trainee)	2013 - 2014
	- Science Referee for ApJ, A&A, MNRAS	
	- Summer Protoplanetary Disk Workshop 2019	
	Member of the local organizing committee	
	- MA-CT Regional Star Formation Meeting	BU, 2018
	Chair of the local organizing committee	
<b>Observing Experience &amp; Proposals (PI)</b>	- Research Experiences for Undergraduates contribution talk	BU, 2017
	- ESAC data analysis and statistics workshop	ESAC/Spain, 2014
	Member of the scientific and organizing committee	
	- ALMA Astronomer on Duty (2018 - present)	
	- Two accepted ALMA proposals (cycle 5, priority B)	
	- One accepted VLA proposals (semester 2018A, priority B)	
<b>Outreach &amp; Media</b>	- Two accepted VISIR/VLT proposals	
	- Four accepted Canaricam/GTC proposals	
	- Observing at the Isaac Newton Telescope and William Herschel Telescope (Canary Islands)	
	- Observing at the Discovery Channel Telescope (Arizona, remote observing)	
	- Radio interview for Radio Infinita to discuss the first image of a black hole by the Event Horizon Telescope, 2019	
	- Various outreach events with the ALMA social networks.	
	- ESO Open House volunteer, 2018	

- Outreach talk at Escuela Particular San Juan Bautista, 2018:  
*ALMA, the most advanced radiointerferometer in the world*
- Participation in the ESO stand during the Chilean Science Week, 2018
- Space Science for Kids, Boston University, 2018
- Public Open Nights at the Observatory, Boston University
- Featured image in ESA Space Science Image of the Week (Nov 27, 2017):  
*Star Formation in the Chamaeleon*
- Owner of “Cartas desde Andrómeda” (2009-2014), an outreach blog about science, astronomy, and astrophysics with over 60 000 visits.  
<http://cartasdesdeandromeda.blogspot.com/>

# ÁLVARO RIBAS - PUBLICATIONS

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Refereed  
publications  
(main  
author)

LONG-LIVED PROTOPLANETARY DISKS IN MULTIPLE SYSTEMS: THE VLA  
VIEW OF HD 98800

Á. Ribas, E. Macías, C. C. Espaillat, G. Duchêne, 2018, *ApJ*, 865, 77R.

FAR-INFRARED TO MILLIMETER DATA OF PROTOPLANETARYDISKS: DUST  
GROWTH IN THE TAURUS, OPHIUCHUS, AND CHAMAELEON I  
STAR-FORMING REGIONS

Á. Ribas, C. C. Espaillat, E. Macías, H. Bouy, S. Andrews, N. Calvet, D.  
A. Naylor, P. Riviere-Marichalar, M., H. D. van der Wiel, & D. Wilner, 2017,  
*ApJ*, 849, 63.

A SEARCH FOR LIGHT CURVE MODULATIONS AMONG KEPLER CANDIDATES:  
THREE SUBSTELLAR/LOW-MASS TRANSITING COMPANIONS

J. Lillo-Box, Á. Ribas (shared main authorship), D. Barrado, B. Merín, &  
H. Bouy, 2016, *A&A*, 592, A32.

CONSTRAINING THE PROPERTIES OF TRANSITIONAL DISKS IN  
CHAMAELEON-I WITH HERSCHEL

Á. Ribas, H. Bouy, B. Merín, G. Duchêne, I. Rebollido, C. Espaillat, & C.  
Pinte, 2016, *MNRAS*, 458, 1029R.

PROTOPLANETARY DISK LIFETIMES AS A FUNCTION OF STELLAR MASS AND  
POSSIBLE IMPLICATIONS FOR GIANT PLANET POPULATIONS

Á. Ribas, H. Bouy, & B. Merín, 2015, *A&A*, 576, A52.

DISK EVOLUTION IN THE SOLAR NEIGHBORHOOD. I. DISK FREQUENCIES  
FROM 1 TO 100 MYR

Á. Ribas, H. Bouy, B. Merín, & L. T. Maud, 2014, *A&A*, 555, A71.

IDENTIFICATION OF TRANSITIONAL DISKS IN CHAMAELEON  
WITH HERSCHEL

Á. Ribas, B. Merín, H. Bouy, C. Alves de Oliveira, D. R. Ardila, E. Puga,  
Á. Kóspál, L. Spezzi, N. L. J. Cox, T. Prusti, G. L. Pilbratt, Ph. André, L.  
Matrà, & R. Vavrek, 2013, *A&A*, 552, A115.

WARM DEBRIS DISKS CANDIDATES IN TRANSITING PLANETS SYSTEMS

Á. Ribas, B. Merín, D. R. Ardila, & H. Bouy, 2012, *A&A*, 541, A38.

**Refereed  
publications  
(co-author)**

- A CENSUS OF RHO-OPH CANDIDATE MEMBERS FROM GAIA DR2  
H. Cánovas, C. Cantero, L. Cieza, A. Bombrun, U. Lammers, B. Merín, A. Mora, **Á. Ribas**, R. Ruíz-Rodríguez, 2019, *A&A*, *in press*.
- MULTIPLE RINGS IN THE TRANSITIONAL DISK OF GM AURIGAE REVEALED BY VLA AND ALMA  
E. Macías, C. C. Espaillat, **Á. Ribas**, K. R. Schwarz, G. Anglada, M. Osorio, C. Carrasco-González, J. F. Gómez, C. Robinson, 2018, *ApJ*, *865*, *37*.
- HERSCHEL OBSERVATIONS OF PROTOPLANETARY DISKS IN LYND 1641  
S. L. Grant, C. C. Espaillat, S. T. Megeath, N. Calvet, W. J. Fischer, C. J. Miller, K. H. Kim, A. M. Stutz, **Á. Ribas**, C. E. Robinson, 2018, *ApJS*, *863*, *13*.
- AN INCIPIENT DEBRIS DISK IN THE CHAMAELEON I CLOUD  
C. C. Espaillat, **Á. Ribas**, M. K. McClure, J. Hernández, J. E. Owen, N. Avish, N. Calvet, & R. Franco-Hernández, 2017, *ApJ*, *844*, *60*.
- FILAMENTARY STRUCTURE AND MAGNETIC FIELD ORIENTATION IN MUSCA  
N. L. J. Cox, D. Arzoumanian, Ph. André, K. L. J. Rygl, T. Prusti, A. Men'shchikov, P. Royer, Á. Kóspál, P. Palmeirim, **Á. Ribas**, V. Könyves, J.-Ph. Bernard, N. Schneider, S. Bontemps, B. Merín, R. Vavrek, C. Alves de Oliveira, P. Didelon, G. L. Pilbratt, & C. Waelkens, 2016, *A&A*, *590*, *A110*.
- X-RAY DEFICIENCY ON STRONG ACCRETING T TAURI STARS:  
COMPARING ORION WITH TAURUS  
I. Bustamante, B. Merín, H. Bouy, C. F. Manara, **Á. Ribas**, & P. Riviere-Marichalar, 2016, *A&A*, *590*, *A110*.
- HERSCHEL-PACS OBSERVATIONS OF DISCS IN THE ETA CHAMAELEONTIS ASSOCIATION  
P. Riviere-Marichalar, P. Elliott, I. Rebollido, A. Bayo, **Á. Ribas**, B. Merín, I. Kamp, W. R. F. Dent, & B. Montesinos, 2015, *A&A*, *584*, *A22*.
- INFRARED STUDY OF TRANSITIONAL DISKS IN OPHIUCHUS WITH HERSCHEL  
I. Rebollido, B. Merín, **Á. Ribas**, I. Bustamante, H. Bouy, P. Riviere-Marichalar, T. Prusti, G. L. Pilbratt, Ph. André, & P. Ábrahám, 2015, *A&A*, *581*, *A30*.
- FIRST DETECTION OF THERMAL RADIOJETS IN PROTO-BROWN DWARFS CANDIDATES  
Ó. Morata, A. Palau, R. F. González, I. de Gregorio-Monsalvo, **Á. Ribas**, M. Perger, H. Bouy, D. Barrado, C. Eiroa, A. Bayo, N. Huélamo, M. Morales-Calderón, & L. F. Rodríguez, 2015, *ApJ*, *807*, *55*.

IDENTIFICATION OF NEW TRANSITIONAL DISK CANDIDATES IN LUPUS WITH  
HERSCHEL

I. Bustamante, B. Merín, **Á. Ribas**, H. Bouy, T. Prusti, G. L. Pilbratt, & Ph. André, 2015, *A&A*, 578, A23.

MESSIER 35 (NGC 2168) DANCe. I. MEMBERSHIP, PROPER MOTIONS AND  
MULTI-WAVELENGTH PHOTOMETRY

H. Bouy, E. Bertin, D. Barrado, L. M. Sarro, J. Olivares, E. Moraux, J. Bouvier, J.-C. Cuillandre, **Á. Ribas**, & Y. Beletsky, 2015, *A&A*, 575, A120.

HERSCHEL/PACS PHOTOMETRY OF TRANSITING-PLANET HOST STARS WITH  
CANDIDATE WARM DEBRIS DISKS

B. Merín, D. R. Ardila, **Á. Ribas**, H. Bouy, G. Bryden, K. Stapelfeldt, & D. Padgett, 2014, *A&A*, 569, A89.

HERSCHEL’S VIEW OF THE LARGE-SCALE STRUCTURE IN THE  
CHAMAELEON DARK CLOUDS

C. Alves de Oliveira, N. Schneider, B. Merín, T. Prusti, **Á. Ribas**, N. L. J. Cox, R. Vavrek, V. Könyves, D. Arzoumanian, E. Puga, G. L. Pilbratt, Á. Kóspál, Ph. André, P. Didelon, A. Men’shchikov, P. Royer, C. Waelkens, S. Bontemps, E. Winston, & L. Spezzi, 2014, *A&A*, 568, A98.

THE HERSCHEL GOULD BELT SURVEY IN CHAMAELEON II. PROPERTIES  
OF COLD AROUND YOUNG STELLAR OBJECTS

L. Spezzi, N. L. J. Cox, T. Prusti, B. Merín, **Á. Ribas**, C. Alves de Oliveira, E. Winston, Á. Kóspál, P. Royer, R. Vavrek, Ph. André, G. L. Pilbratt, L. Testi, E. Bressert, L. Ricci, A. Men’shchikov, & V. Könyves, 2013, *A&A*, 555, A71.

A NEW HERSCHEL VIEW OF THE YOUNG STAR T54: NOT A  
TRANSITIONAL DISK?

L. Matrà, B. Merín, C. Alves de Oliveira, N. Huélamo, Á. Kóspál, N. L. J. Cox, **Á. Ribas**, E. Puga, R. Vavrek, P. Royer, T. Prusti, G. L. Pilbratt, & P. André, 2012, *A&A*, 548, A111.

HERSCHEL FAR-IR OBSERVATIONS OF THE CHAMAELEON MOLECULAR CLOUD  
COMPLEX. CHAMAELEON I: A FIRST VIEW OF YOUNG STELLAR OBJECTS  
IN THE CLOUD

E. Winston, N. L. J. Cox, T. Prusti, B. Merín, **Á. Ribas**, P. Royer, R. Vavrek, E. Puga, Ph. André, A. Men’shchikov, V. Könyves, Á. Kóspál, C. Alves de Oliveira, G. L. Pilbratt, & C. Waelkens, 2012, *A&A*, 545, A145.

A SEARCH FOR PRE-SUBSTELLAR CORES AND PROTO-BROWN DWARF CAN-  
DIDATES MULTIWAVELENGTH ANALYSIS IN THE B213-L1495 CLOUDS

A. Palau, I. de Gregorio-Monsalvo, Ó. Morata, D. Stamatellos, N. Huélamo, C. Eiroa, A. Bayo, M. Morales-Calderón, H. Bouy, **Á. Ribas**, D. Asmus, & D. Barrado, 2013, *MNRAS*, 424, 2778.

THE DUSTY ENVIRONMENT OF HD 97300 AS SEEN BY HERSCHEL  
AND SPITZER

Á. Kóspál, T. Prusti, N. L. J. Cox, G. L. Pilbratt, Ph. André, C. Alves  
de Oliveira, E. Winston, B. Merín, **Á. Ribas**, P. Royer, R. Vavrek, & C.  
Waelkens, 2012, *A&A*, 541, A71.