

ÁLVARO RIBAS - CV

Boston University
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Research Interests

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

Positions

POSTDOCTORAL RESEARCHER (Boston University) 2015 - Present
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)
Advisors: Bruno Merín & Hervé Bouy
Thesis: *Protoplanetary disk evolution in nearby star-forming regions*
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 June 2018 (see Publications List):
First author of seven publications (including one shared first authorship)
Co-author of sixteen publications

Fellowships & Awards

ESO Fellowship at ALMA (2018)
SMA Fellowship, Harvard-Smithsonian Center for Astrophysics (2018, declined)
FONDECYT Fellowship, Chilean Ministry of Education (2018, declined)
IdEx Fellowship, University of Bourdeaux (2018, declined)

Teaching & Mentoring Experience

AS203 *Principles of Astronomy 2* Guest Lecturer (Boston University) 2018
Mentoring:
- Sarah Luetzgen (Undergraduate Student, Boston University) 2018
- Evan Leto (Undergraduate Student, Boston University) 2016 - 2017
- Amanda Reveles (Undergraduate Student, Boston University) 2016 - 2017

- Isabel Rebolledo (ESA trainee) 2014 - 2015
- Ignacio Bustamante (ESA trainee) 2013 - 2014

- Presentations**
- *Regional Star Formation Meeting 2018 BU/USA, 2017
 - *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 (invited talk) Garching/Germany, 2011

**conferences denoted with asterisk.*

- Professional Service**
- Science Referee for A&A, MNRAS
 - MA-CT Regional Star Formation Meeting BU, 2018
 - Chair of the local organizing committee
 - Research Experiences for Undergraduates contribution talk BU, 2017
 - ESAC data analysis and statistics workshop ESAC/Spain, 2014
 - Member of the scientific and organizing committee

- Observing Experience & Proposals (PI)**
- Two accepted ALMA proposals (cycle 5, priority B)
 - One accepted VLA proposals (semester 2018A, priority 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)

- Outreach & Others**
- 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 Andr6meda” (2009-2014), an outreach blog about science, astronomy, and astrophysics with over 60 000 visits.
<http://cartasdesdeandromeda.blogspot.com/>

ÁLVARO RIBAS - PUBLICATIONS

Refereed
publications
(first author)

FAR-INFRARED TO MILLIMETER DATA OF PROTOPLANETARY DISKS: 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 first 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)

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*, in press.

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. Abraham, 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 CANDIDATES 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.