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ACADEMIC FORMATION

• **Undergraduate Physics (1995-2000)**: Universidad Autónoma de Madrid (UAM), Spain. Specialty Theoretical Physics. Graduated in 2000 with grade 3.78 (over 4). “**Primer Premio Extraordinario de Licenciatura en Ciencias Físicas**” on June 4th, 2001, national award for the best student graduating in Physics in the year 2000 in Spain. “**Premio Fin de Carrera de la Universidad Autónoma de Madrid**” on June, 2001, award for the best student graduating in Physics in the year 2000 in the UAM.

• **Master degree, “Diploma de Estudios Avanzados”**, March 2003 at the UAM.

• **Doctorate degree** on June 8th 2005 at the Universidad Autónoma de Madrid. Thesis title: “Disk Evolution at the Ages of Planet Formation”. Grade: **Sobresaliente “Cum Laude”**. Thesis advisor: Lee W. Hartmann, Harvard-Smithsonian Astrophysical Observatory (Cambridge, MA, USA). Mentor in home institution: Carlos Eiroa (Universidad Autónoma de Madrid). Awarded “**Premio Especial de Doctorado**” from the Universidad Autónoma de Madrid.

PROFESSIONAL EXPERIENCE

• **DFG Research Grant at the Max-Planck-Institut für Astronomie (Heidelberg, Germany)**: September 2008 - present. Personal postdoc grant funded by the Deutsche Forschungsgemeinschaft, to work on my topic “*The effect of mass and environment on the evolution of protoplanetary disks*”.

• **Postdoctoral Stipendium at the Max-Planck-Institut für Astronomie (Heidelberg, Germany)**: September 2005 - September 2008. Postdoc in the group of Thomas Henning, working on evolved accretion disks using multiwavelength observations (optical photometry and spectroscopy, Spitzer photometry and spectroscopy, millimeter wavelengths).

• **Predoctoral Fellow at the Harvard-Smithsonian CfA (Cambridge, MA, USA)**:

October 2000 - July 2005. Advisor: Lee Hartmann (Smithsonian Astrophysical Observatory).

Mentor in home institution: Carlos Eiroa (Universidad Autónoma de Madrid, Spain)

Thesis project: *Protoplanetary Disk Evolution at the Ages of Planet Formation*. Thesis defended on June 8th, 2005, **Sobresaliente “Cum Laude”**. Multiwavelength (UVRI, JHK, Spitzer 3.6-24 μ m) study of stars at the critical ages (3-10 Myr) for disk dissipation and planet formation.

• **Summer Program at the IAC (La Laguna, Spain)**: July - September 2000.

Advisor: Ignacio García de la Rosa. Project: *The Tolman Test*. Study of the evolution of the universe from properties of elliptical galaxies in galaxy clusters, using data from the Hubble Space Telescope.

LANGUAGES

Native Spanish.

Fluent English.

Fluent German, “*Zertifikat Deutsch*” (Goethe-Institut).

OBSERVING EXPERIENCE

I have carried out personally observations for my projects, collaborators, and/or service observations for third parties at the following facilities:

- **Optical photometry:**

1.2m telescope at the Fred Lawrence Whipple Observatory, Mount Hopkins, AZ, USA.

2.2m telescope in La Silla Observatory, Chile.

70cm King telescope at the Max-Planck-Institut für Astronomie, Heidelberg, Germany.

- **Optical spectroscopy:**

Hydra multifiber spectrograph, WIYN/3.5m telescope in Kitt Peak, AZ, USA

Hectospec multifiber spectrograph, MMT/6.5m telescope, Mount Hopkins, AZ, USA.

FAST slit spectrograph at the 1.5m telescope, Fred Lawrence Whipple Observatory, AZ, USA.

WYFFOS multifiber spectrograph at the William Herschel Telescope in Roque de los Muchachos, La Palma, Spain.

- **Near-infrared photometry:**

SQIID camera, 2.1m telescope in Kitt Peak, AZ, USA.

Flamingos camera, MMT/6.5m, Mount Hopkins, AZ, USA.

- **Infrared spectroscopy:**

IRTF 3.0m, Mauna Kea, Hawaii, USA.

- **Millimetre-Radio wavelengths:**

Continuum and line observations at the IRAM 30m radiotelescope in Sierra Nevada, Spain.

Line observations at the 100m Effelsberg radiotelescope, Germany.

APPROVED OBSERVING PROPOSALS/PROJECTS

Since I started working at the MPIA, most of my research has been based on my own observations. These are my approved observing proposals for which I am PI:

- **Calar Alto/3.5m and 2.2m Telescopes:**

- Photometric and spectroscopic monitoring of the variable star GM Cep (DDT, 2006-8, 5h)

- Deep UBVR photometry of Tr 37 with LAICA/3.5m telescope (2007, 5h)

- Triggered star formation in the outskirts of Tr 37 (LAICA/3.5m telescope, 2009, 5h)

- **VLT/Flames optical spectroscopy:**

- Accretion history of the very low-mass stars in the Coronet cluster (Period 79A, 8h)

- Accretion in the Coronet cluster: Evolution of very low-mass objects (Period 83A 9h)

- **Subaru/HDS:**

- The young eruptive star GM Cep: Activity, rotation, and binarity (2007, 3h)

VLT/Hawk-I:

- Accretion in the Coronet cluster: Evolution of very low-mass objects (Period 83A, 5h)

Spitzer/IRS:

- Protoplanetary disks around very low-mass stars in the Coronet cluster (cycle-3, 23h, P.I. Th. Henning, A.S.A. as technical contact).
- Dust and gas in planet-forming disks (cycle-3, 36h).

APEX/LABOCA:

- Disk evolution at a single age: tracing the initial conditions in the Coronet cluster (Period 80, 20h)

SMA:

- Dynamics and structure in a binary transition disk: The GW Ori system (2009B, 16h)

IRAM 30m Radiotelescope:

- The disk of the variable star GM Cep (2006, 5h)
- Outer disk evolution in evolved protoplanetary disks I (2007, 20 h)
- Outer disk evolution in evolved protoplanetary disks II (2008, 40 h)
- Outer disk evolution in evolved protoplanetary disks III (2009, 40 h)

REFERRED PUBLICATIONS

Total citations: 528. H index (H papers with at least H citations): 12.

FIRST AUTHOR

- *Accretion in Evolved and Transitional Disks in Cep OB2: Looking for the Origin of the Inner Holes*

Sicilia-Aguilar, A., Henning, Th., Hartmann, L.

2010, *ApJ* 710, 597

- *The Long-Lived Disks in the Eta Chamaeleontis Cluster*

Sicilia-Aguilar, A., Bouwman, J., Juhász, A., Henning, Th., Roccatagliata, V., Lawson, W.A., Acke, B., Feigelson, E.D., Tielens, A.G.G.M., Decin, L., Meeus, G.

2009, *ApJ* 701, 1188

- *Very Low-Mass Objects in the Coronet Cluster: The Realm of the Transition Disks*

Sicilia-Aguilar, A., Henning, Th., Juhász, A., Bouwman, J., Garmire, G., Garmire, A.

2008, *ApJ* 687, 1145

- *The Rapid Outbursting Star GM Cep: An EX-or in Tr 37?*

Sicilia-Aguilar, A., Merin, B., Hormuth, F., Abraham, P., Henning, Th., Kun, M., Patel, N., Juhász, A., Brandner, W., Hartmann, L., Csizmadia, S., & Moór, A.

2008, *ApJ* 673, 382

- *Silicate Dust in Evolved Protoplanetary Disks: Growth, Sedimentation, and Accretion*
Sicilia-Aguilar, A., Hartmann, L., Watson, D., Bohac, C., Henning, Th., & Bouwman, J.
2007, ApJ 659, 1637
- *High-Resolution Spectroscopy in Tr 37: Gas Accretion Evolution in Evolved Dusty Disks*
Sicilia-Aguilar, A., Hartmann, L., Fűrész, G., Henning, Th., Dullemond, C., & Brandner, W.
2006, AJ 132, 2135
- *Disk Evolution in Cep OB2: Results from the Spitzer Space Telescope*
Sicilia-Aguilar, A., Hartmann, L., Calvet, N., Megeath, S. T., Muzerolle, J., Allen, L., D'Alessio, P., Merín, B., Stauffer, J., Young, E., & Lada, C.
2006, ApJ 638, 897
- *Cepheus OB2: Disk Evolution and Accretion at 3-10 Myr*
Sicilia-Aguilar, A., Hartmann, L., Hernández, J., Briceño, C., & Calvet, N.
2005, AJ, 130, 188
- *Accretion, Kinematics, and Rotation in the Orion Nebula Cluster: Initial Results from Hectochelle*
Sicilia-Aguilar, A., Hartmann, L., Szentgyorgyi, A., Fabricant, D., Fűrész, G., Roll, J., Conroy, M., Calvet, N., Tokarz, S., & Hernández, J.
2005, AJ, 129, 363
- *Low-Mass Stars and Accretion at the Ages of Planet Formation in the Cepheus OB2 Region*
Sicilia-Aguilar, A., Hartmann, L., Briceño, C., Muzerolle, J., & Calvet, N.
2004, AJ 128, 805

PUBLICATIONS WITH COLABORATORS

- *Episodic Formation of Cometary Material in the Outburst of a Solar-Like Young Star*
Ábrahám, P., Juhász, A., Dullemond, C.P., Kóspál, Á, van Boekel, R., Bouwman, J., Henning, Th., Moór, A., Mosoni, L., Sicilia-Aguilar, A., Sipos, N.
2009, Nature 459, 224
- *Protoplanetary Disk Evolution around the Triggered Star Forming Region Cepheus B*
Getman, K.V., Feigelson, E.D., Luhman, K.L., Sicilia-Aguilar, A., Wang, J., Garmire, G.P.
2009, ApJ 669, 1454
- *Chandra and Spitzer Observations Reveal New YSOs in the Heart of Trumpler 37*
Mercer, E. P.; Miller, J. M.; Calvet, N.; Hartmann, L.; Hernandez, J.; Sicilia-Aguilar, A.; Gutermuth, R.
2009, AJ 138, 7

• *MBM 12: Young Protoplanetary Discs at High Galactic Latitude*

Meeus, G., Juhász, A., Henning, Th., Bouwman, J., Chen, C., Lawson, W., Apai, D., Pascucci, I. Sicilia-Aguilar, A.

2009, *A&A* 497, 379

• *Optical Characterization of a New Young Stellar Population in the Serpens Molecular Cloud*

Oliveira, I., Merín, B., Pontoppidan, K., van Dishoeck, E., Overzier, R., Hernández, J., Sicilia-Aguilar, A., Eiroa, C., Montesinos, B.

2009, *ApJ* 691, 672

• *CfA3: 185 Type Ia Supernova Light Curves from the CfA*

Hicken, M., and 76 coauthors

2009, *ApJ* 700, 331

• *Disk Evolution in the Orion OB1 Association*

Calvet, N., Briceño, C., Hernández, J., Hoyer, S., Hartmann, L., Sicilia-Aguilar, A., Megeath, S. T., D'Alessio, P.

2005, *AJ* 129, 935

• *Herbig Ae/Be Stars in nearby OB Associations*

Hernández, J., Calvet, N., Hartmann, L., Briceño, C., Sicilia-Aguilar, A., Berlind, P.

2005, *AJ* 129, 856

• *Protostars in the Elephant Trunk Nebula*

Reach, W., Rho, J., Young, E., Muzerolle, J., Fajardo-Acosta, S., Hartmann, L., Sicilia-Aguilar, A., Allen, L., Carey, S., Cuillandre, J., Jarrett, T., Lowrance, P., Marston, A., Noriega-Crespo, A., Hurt, R.

2004, *ApJS* 154, 385

• *A Study of Intermediate-Mass Stars in Trumpler 37*

Contreras, M. E., Sicilia-Aguilar, A., Muzerolle, J., Calvet, N., Berlind, P., Hartmann, L.

2002, *AJ* 124, 1585

COMPUTING AND DATA REDUCTION EXPERIENCE

Experience with **C** and **AWK** programming languages.

Astronomical software and reduction packages:

Wide experience with IRAF (data reduction, photometry, spectroscopy); MOPEX (IRAC/MIPS Spitzer data); MOPSIC (reduction of millimetre wavelength continuum data); GILDAS/CLASS (analysis of millimetre wavelength line data), BoA (reduction of APEX/LABOCA submillimetre data).

I have wide experience reducing and analyzing optical data (photometry and single-object/multiobject spectroscopy); near- and mid-IR data (including data from the three instruments available on Spitzer, IRAC, MIPS and IRS); and millimetre/submillimetre continuum and line data.

INVITED TALKS

“Multiwavelength imaging of dusty stars and newborn planets” at the 12th SSOM (Swiss Society for Optics and Microscopy) Engelberg Lectures in Optics, March 5, 2007 in Engelberg, Switzerland.

MOST RECENT TALKS

“Evolved Protoplanetary Disks: The Multiwavelength Picture” on March 2, 2009, at the conference *“Planet Formation and Evolution: The Solar System and Extrasolar Planets”* in Tübingen, Germany.

“Evolved protoplanetary disks” on July 21, 2008, at the 15th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, St. Andrews, Scotland.

“Gas accretion in evolved and transitional disks” on July 21, 2008, at the 15th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, St. Andrews, Scotland.

“Evolution and dispersal of protoplanetary disks” on January 18, 2008, at the Instituto de Astrofísica de Andalucía (IAA), Granada, Spain.

“From disks to planets: Evolution and dispersal of protoplanetary disks” on October 8, 2007 in Heidelberg, Germany, during the external scientific evaluation committee (Max-Planck Fachbeirat) of the MPIA.

POPULAR TALKS

“Dusty stars, newborn planets, and eclipses in other solar systems” on March 28, 2006 in Antalya, Turkey.

OTHER AREAS OF KNOWLEDGE AND INTEREST

Music studies: 5 Years Solfeggio and Musical Language, 2 years Modern Harmony, 7 years Recorder (Conservatory of Granada, Conservatory of Gijón, “Escuela Municipal de Música” of Tres Cantos). 2 years Guitar in a school program. 5 Years singing in different choirs at the “Escuela Municipal de Música” of Tres Cantos. Wide experience in solo and ensemble performances, concentrating on Medieval, Renaissance and Baroque music. Member of the “Chamber Music Program at the Mather House” in Harvard from 2001 until 2004.

Literature: 4 Literary awards at the “Encuentros” Literary Contest of Tres Cantos: Third prize in prose (1994). First prize in prose (1996). Accésit in poetry (1996). Second prize in prose (1998). Several literary works published in the literary journal “Encuentros” of Tres Cantos, from 1994-1999.

Sports: Figure skating.