Carolina Agurto Gangas

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Education

Ludwig-Maximilians-Universität München

Munich, DE Expected Graduation: September 2019

Dr. rer. nat. in Astronomy

Valparaiso, CL

Universidad de Valparaiso *MSc. in Astrophysics*

Graduation: May 2015

Universidad de Valparaiso

Valparaiso, CL

Licentiate in Physics with specialization in Astronomy, BSc degree

Graduation: December 2012

Observation Experience

NOrthern Extended Millimeter Array (NOEMA)

IRAM, Grenoble, FR

Project S16AT Grain growth in a Class I protoplanetary disk.

29-01 Jun/Feb 2017

PI: C. Agurto-Gangas. Total time: 7.9h

Submillimeter Array (SMA)

Mauna Kea, HI

MASSES Observing programm 2014A-S093

2-6 Jun 2016

Paranal Observatory

Antofagasta, CL

Observing programm on FORS

2-4 Jun 2015

Period measurements of WDMS binaries on CVs period gap

Observatorio Santa Martina UC

Santiago, CL

Be stars spectra campaign

23-27 Feb 2015

O Spectra for 40 Be stars using Pucheros, a high resolution Echelle spectrograph (R = 17000) mounted ESO telescope at 50cm.

La Silla Observatory

La Serena, CL

Observing program on NTT-EFOSC2

23-30 Nov 2012

 Spectral study of binary systems (K-F-G dwarf) plus white dwarf star, radial velocity and period calculation.

Cruz del Sur Observatory

Combarbalá, CL

Variable stars observation (CCDOps software)

25-30 Jan 2011

Publications and Proceedings

Revealing the dust grain size in the inner envelope of the Class I protostar Per-emb-50

2019

Accepted for publication in A&A

Agurto-Gangas, C.; Pineda, J. E.; Szucs, L.; Testi, Tazzari, M., Miotello, A.; Caselli, P.;

Dunham, M.; Stephens, I. W.; Bourke, T.

Grain growth in Class I protostar Per-emb-50: a dust continuum analysis ...

2017

Proceeding, Memorie della Societa Astronomica Italiana, v.88, p.761.

Agurto-Gangas, C.; Pineda, J. E.; Testi, L.; Caselli, P.; Szucs, L.; Tazzari, M.; Dunham, M.;

Stephens, I. W.; Miotello, A.

Determination of Pulsation Periods and Other Parameters of 2875 Stars ...

2016

ApJ Supplement Series, Volume 227, Issue 1, article id. 6, 13 pp.

Vogt, N.; Contreras-Quijada, A.; Fuentes-Morales, I.; Vogt-Geisse, S.; Arcos, C.; Abarca, C.;

Agurto-Gangas, C.; Caviedes, M.; DaSilva, H.; Flores, J.; Gotta, V.; Peñaloza, F.; Rojas, K.; Villaseñor, J. I.

Young stellar clusters in the VVV Survey containing massive YSOs ApJ, Volume 152, Issue 3, article id. 74, 23 pp. Borissova, J.; Ramírez Alegría, S.; Alonso, J.; Lucas, P. W.; Kurtev, R.; Medina, N.; Navarro, C.; Kuhn, M.; Gromadzki, M.; Retamales, G.; Fernandez, M. A.; Agurto-Gangas, C.; Chené, A. N.; Minniti, D.; Contreras Pena, C.; Catelan, M.; Decany, I.; Thompson, M. A.; Morales, E. F. E.; Amigo, P.	2016
Detached cataclysmic variables are crossing the orbital period gap MNRAS, Volume 457, Issue 4, p.3867-3877. Zorotovic, M.; Schreiber, M. R.; Parsons, S. G.; Gänsicke, B. T.; Hardy, A.; Agurto-Gangas, C.; Nebot Gómez-Morán, A.; Rebassa-Mansergas, A.; Schwope, A. D.	2016
VVV Galactic Star Clusters: VVV CL059 Proceeding VI Reunión sobre Astronomía Dinámica en Latinoamérica (ADeLA 2014), RevMexAA Agurto Gangas, C.; Borissova, J.; Ramirez Alegria, S.; Kurtev, R.; VVV star cluster Team	2015
Fourteen new eclipsing SDSS white dwarf plus main-sequence binaries MNRAS, Volume 449, Issue 2, p.2194-2204. Parsons, S. G.; Agurto-Gangas, C.; Gänsicke, B. T.; Rebassa-Mansergas, A.; Schreiber, M. R.; Marsh, T. R.; Dhillon, V. S.; Littlefair, S. P.; Drake, A. J.; Bours, M. C. P.; Breedt, E.; Copperwheat, C. M.; Hardy, L. K.; Buisset, C.; Prasit, P.; Ren, J. J.	2015
White dwarf-main sequence binaries from SDSS DR8: unveiling the cool MNRAS, Volume 433, Issue 4, p.3398-3410. Rebassa-Mansergas, A.; Agurto-Gangas, C.; Schreiber, M. R.; Gänsicke, B. T.; Koester, D.	2013
Conferences/Schools/Workshop	
Talk: Radiative transfer modelling for the Per-emb-50 protostellar disk Center for Astrochemical studies (CAS) Retreat. Ringberg, Germany	5-7 Dec 2018
Talk: Revealing the dust grain size in the inner envelope of the Class I protostar Per-emb-50 Second Binational Meeting AAA-SOCHIAS. La Serena, Chile	7-12 Oct 2018
II International Astrochemistry School Universidad Autónoma de Chile. Santiago, Chile	1-5 Oct 2018
Talk: Revealing the dust grain size in the inner envelope of the Class I protostar Per-emb-50 MPE Science Day 2018. Garching, Germany	12 Sep 2018
Poster: Revealing the dust grain sizes in the envelope of Per-emb-50 Cosmic Dust: origin, applications and implications. Copenhagen, Denmark	11-15 Jun 2018
Talk: Evidence of grain growth in Class I protostar: Per-emb-50 Center for Astrochemical studies (CAS) Retreat. Ringberg, Germany	28-30 Jun 2017
, ,	ay- 23 Jun 2017
Poster: Grain growth in Class I protostar Per-emb-50: A dust continuum analysis with NOEMA & SMA	5-9 Jun 2017
Francesco's legacy: star formation in space and time. Florence, Italy.	
9th IRAM millimeter interferometry School Institut de Radioastronomie Millimétrique IRAM, Grenoble, France	10-14 Oct 2016
Talk: Grain growth in Class I Protostars 2nd IMPRS Symposium. MPE, Garching, Germany	5-6 Oct 2016
Talk: Combining the Catalina light curve catalogue and SDSS to identify new eclipsing PCEBs	

Poster: Young stellar clusters in the VVV Survey containing massive YSOs	12-15 Mar 2015
XII annual meeting of the Chilean Astronomical Society (SOCHIAS). Puerto Varas, Chile First VLTI School in Chile	2.7 Nov. 2014
Universidad de Valparaíso, Chile	3-7 Nov 2014
	ıg 29 - Oct 3 2014
VI Reunión sobre Astronomía Dinámica en Latinoamérica (ADeLA 2014). Santiago, Chile	1g 29 - Oct 9 2014
Poster: VISTA Variables in The Via Lactea Galactic Star Clusters: VVV CL05 First Workshop of Millenium Institute of Astrophysics. Los Andes, Chile	9 7-8 Aug 2014
MAD Planet Formation Summer School	20-22 Mar 2013
Cerro Calán, Santiago, Chile	
Talk: White dwarf-M dwarf binaries from Sloan Digital Sky Survey I National Meeting of Physics and Astronomy Students. Valparaíso, Chile	22-26 Oct 2012
Talk: White dwarf-M dwarf binaries from Sloan Digital Sky Survey IX annual meeting of the Chilean Astronomical Society (SOCHIAS). Viña del Mar, Chile	10-12 Oct 2012
Poster: White dwarf-M dwarf binaries from Sloan Digital Sky Survey First Bi-national Meeting AAA-SOCHIAS. San Juan, Argentina.	3-7 Oct 2011
Awards/Grants	
Award 100 Young Chilean Leaders Selected as one of the 100 leaders under 35 by El Mercurio newspaper and Universida	Dec 2018
Scholarship for Doctorate programs abroad	2015-present
Becas Chile, CONICYT Nr. 5594/2015	2015-present
Grants for the Astronomy Graduate Program of the Universidad de Valparaíso Gemini-CONICYT Project Nr. 32110004	2014
Grants for the Master Astronomy Program at Universidad de Valparaíso ALMA-CONICYT Project Nr. 31120015	2013
Teaching experience	
Universidad de Valparaíso: B.S. in Mathematics Course	
First semester, Assistant professor in Physic I	2012
B.S. in Astrophysics Course	
First semester, Assistant professor in Laboratory, Electromagnetism, Waves and Op	otics 2012
B.S. in Astrophysics Course	
First semester, Assistant professor in Physic I y Physic II	2011
Programing skills	
o Programming Languages Python, Fortran, Bash, Supermongo	
o Astronomical Softwares RADMC-3D, CASA, MIRIAD, Class, Ds9, IDL, IRAF, Topcat, VC	OSpec

Outreach Activities

o Native Spanish. Fluent English. A2 German

Star Tres Projectwww.startres.netScience Communicator2013-present

National outreach programme and assessment of science and technology Scientific Assistant. EXPLORA	2013-present
Universidad de Valparaiso Member, Communication and Outreach Center	2012
Exhibition: The Max Planck Science Tunnel in Valparaiso Expositor	2009
School Talks, Outreach Activities in Universidad de Valparaíso Talk: Stellar evolution	2008-2015