Carolina Agurto Gangas

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Education

Ludwig-Maximilians-Universität MünchenMunich, DEDr. rer. nat. in AstronomyExpected Graduation: September 2019Universidad de ValparaisoValparaiso, CLMSc. in AstrophysicsGraduation: May 2015Universidad de ValparaisoValparaiso, 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)

MASSES Observing programm 2014A-S093

Annual Kea, HI

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

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

La Silla Observatory

Observing program on NTT-EFOSC2

La Serena, CL
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

Variable stars observation (CCDOps software)

Combarbalá, CL

25-30 Jan 2011

Publications and Proceedings

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

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 2016

ApJ, Volume 152, Issue 3, article id. 74, 23 pp. Borissova, J.; Ramírez Alegría, S.; Alonso, J.; Lucas, P. W.; Kurtev, R.; Medina, N.; Navarr 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.	ro, C.;
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 Nebot Gómez-Morán, A.; Rebassa-Mansergas, A.; Schwope, A. D.	<i>2016</i> , C.;
VVV Galactic Star Clusters: VVV CL059 Proceeding VI Reunión sobre Astronomía Dinámica en Latinoamérica (ADeLA 2014), RevV Agurto Gangas, C.; Borissova, J.; Ramirez Alegria, S.; Kurtev, R.; VVV star cluster Team	2015 1exAA.
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. 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.	<i>2015</i> R.;
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
Il 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
, ,	29 May- 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	5-6 Oct 2016
2nd IMPRS Symposium. MPE, Garching, Germany	
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 Universidad de Valparaíso, Chile	3-7 Nov 2014
Poster: VVV Galactic Star Clusters: VVV CL059 Aug	29 - Oct 3 2014
VI Reunión sobre Astronomía Dinámica en Latinoamérica (ADeLA 2014). Santiago, Chile	
Poster: VISTA Variables in The Via Lactea Galactic Star Clusters: VVV CL059 First Workshop of Millenium Institute of Astrophysics. Los Andes, Chile	7-8 Aug 201
MAD Planet Formation Summer School Cerro Calán, Santiago, Chile	20-22 Mar 2013
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	Dec 2018
Selected as one of the 100 leaders under 35 by El Mercurio newspaper and Universidad	
Scholarship for Doctorate programs abroad 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 Option	cs 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	

- $\circ \ \, \textbf{Programming Languages} \, \, \textbf{Python, Fortran, Bash, Supermongo} \\$
- o Astronomical Softwares RADMC-3D, CASA, MIRIAD, Class, Ds9, IDL, IRAF, Topcat, VOSpec
- o Native Spanish. Fluent English. A2 German

Outreach Activities

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