

Carolina Agurto Gangas

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Education

Ludwig-Maximilians-Universität München

Dr. rer. nat. in Astronomy

Munich, DE
Expected Graduation: September 2019

Universidad de Valparaíso

MSc. in Astrophysics

Valparaíso, CL
Graduation: May 2015

Universidad de Valparaíso

Licentiate in Physics with specialization in Astronomy, BSc degree

Valparaíso, CL
Graduation: December 2012

Observational experience

NORthern Extended Millimeter Array (NOEMA)

Project S16AT Grain growth in a Class I protoplanetary disk.

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

IRAM, Grenoble, FR

29-01 Jun/Feb 2017

Submillimeter Array (SMA)

Support astronomer on MASSES observing programm 2014A-S093

Mauna Kea, HI

2-6 Jun 2016

Paranal Observatory

Observing programm on FORS

- Period measurements of WDMS binaries on CVs period gap

Antofagasta, CL

2-4 Jun 2015

Observatorio Santa Martina UC

Be stars spectra campaign

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

Santiago, CL

23-27 Feb 2015

La Silla Observatory

Observing program on NTT-EFOSC2

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

La Serena, CL

23-30 Nov 2012

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

2019

A&A Volume 623, A147

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.; 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.

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.; Schwöpe, 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.; Ramírez 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 of a protostellar disk 7th International Max-Planck Research School on Astrophysics (IMPRS) Symposium. MPE, Garching, Germany	4-5 April 2019
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
Talk: Grain growth in Class I Protostars MIAPP PROGRAMME: PROTOPLANETARY DISKS AND PLANET FORMATION AND EVOLUTION. Garching, Germany	29 May- 23 Jun 2017
Poster: Grain growth in Class I protostar Per-emb-50: A dust continuum analysis with NOEMA & SMA Francesco's legacy: star formation in space and time. Florence, Italy.	5-9 Jun 2017
9th IRAM millimeter interferometry School Institut de Radioastronomie Millimétrique IRAM, Grenoble, France	10-14 Oct 2016
Talk: Grain growth in Class I Protostars 2nd International Max-Planck Research School on Astrophysics (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 XII annual meeting of the Chilean Astronomical Society (SOCHIAS). Puerto Varas, Chile	12-15 Mar 2015
First VLTI School in Chile Universidad de Valparaíso, Chile	3-7 Nov 2014
Poster: VVV Galactic Star Clusters: VVV CL059 VI Reunión sobre Astronomía Dinámica en Latinoamérica (ADeLA 2014). Santiago, Chile	Aug 29 - Oct 3 2014
Poster: VISTA Variables in The Via Lactea Galactic Star Clusters: VVV CL059	7-8 Aug 2014

First Workshop of Millenium Institute of Astrophysics. Los Andes, Chile

MAD Planet Formation Summer School

20-22 Mar 2013

Cerro Calán, Santiago, Chile

Talk: White dwarf-M dwarf binaries from Sloan Digital Sky Survey

22-26 Oct 2012

First National Meeting of Physics and Astronomy Students. Valparaíso, Chile

Talk: White dwarf-M dwarf binaries from Sloan Digital Sky Survey

10-12 Oct 2012

IX annual meeting of the Chilean Astronomical Society (SOCHIAS). Viña del Mar, Chile

Poster: White dwarf-M dwarf binaries from Sloan Digital Sky Survey

3-7 Oct 2011

First Bi-national Meeting AAA-SOCHIAS. San Juan, Argentina.

Awards/Grants

Award 100 Young Chilean Leaders

Dec 2018

Selected as one of the 100 leaders under 35 by El Mercurio newspaper and Universidad Adolfo Ibáñez

Scholarship for Doctorate programs abroad

2015-present

Becas Chile, CONICYT Nr. 5594/2015

Grants for the Astronomy Graduate Program of the Universidad de Valparaíso

2014

Gemini-CONICYT Project Nr. 32110004

Grants for the Master Astronomy Program at Universidad de Valparaíso

2013

ALMA-CONICYT Project Nr. 31120015

Teaching experience

Universidad de Valparaíso:

2012 **First semester, Assistant professor in Physic I, B.S. in Mathematics Course.**

2012 **First semester, Assistant professor in Laboratory, Electromagnetism, Waves and Optics, B.S. in Astrophysics Course.**

2011 **First semester, Assistant professor in Physic I y Physic II, B.S. in Astrophysics Course.**

Programming skills

- **Programming Languages** Python, Fortran, Bash, Supermongo
- **Astronomical Softwares** RADMC-3D, CASA, MIRIAD, Class, Ds9, IDL, IRAF, Topcat, VOSpec
- Native Spanish. Fluent English. A2 German

Outreach activities

2013-present **Co-founder & Science Communicator, Star Tres Project.** *Astronomy outreach initiative, www.startres.net.*

2013-present **Scientific Assistant. EXPLORA,** *National outreach programme and assessment of science and technology.*

2008-2015 **Talk: Stellar evolution, School Talks, Outreach Activities in Universidad de Valparaíso.**

2012 **Member, Communication and Outreach Center, Universidad de Valparaíso.**

2009 **Tour guide in Astronomy section, Exhibition: The Max Planck Science Tunnel in Valparaíso.**