

Javier Zaragoza Cardiel

Astrophysicist



Contact

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Nationality: Spanish
Date of birth:
12/07/1986
Date of PhD:
13/02/2015

Languages

Spanish native
English fluent

References

Available on request

Education

2015	Ph.D. in Astrophysics Ph.D. Thesis: <i>Kinematics of interacting galaxies.</i> Supervisors: John E. Beckman & Kambiz Fathi.	University of La Laguna, Spain
2011	M.Sc in Astrophysics Master's Thesis: <i>The kinematic of galaxy interactions applied to its evolution.</i> Supervisors: John E. Beckman, Joan Font & Begoña García Lorenzo.	University of La Laguna, Spain
2010	Bachelor in Physics	University of Murcia, Spain

Experience

2019-present	INAOE Cátedra CONACYT	Puebla, Mexico
	• CONACYT Research Fellow commissioned in INAOE to research on millimeter astronomy using the Large Millimeter Telescope at Volcán Sierra Negra, Puebla.	
2018-2019	INAOE CONACYT Postdoc	Puebla, Mexico
	• Postdoctoral research assistant working on the CONACyT project led by Itziar Artxaga entitled “Deep panoramic surveys at 1.1/1.4/2.1mm with the new polarimetric camera TolTEC”.	
2015-2017	Instituto de Astronomía-UNAM DGAPA postdoc	Mexico City, Mexico
	• DGAPA Postdoctoral Fellowship, program of the National Autonomous University of Mexico (UNAM) for independent research for 2 years supervised by Margarita Rosado.	

Observational experience

2019-present	Millimeter <i>Observer at millimeter telescopes</i>	
	• Part of the scientific operation group of the Large Millimeter Telescope (Sierra Negra, Puebla, México).	
2010-present	Optical <i>Observer at optical telescopes</i>	
	• Observer at the William Herschel Telescope (<i>Roque de los Muchachos Observatory, La Palma, Spain</i>), the 2.1m telescope at the <i>Observatorio Astronómico Nacional</i> (<i>San Pedro Mártir, Baja California, Mexico</i>), and the 2.1m telescope at the <i>Observatorio Astrofísico Guillermo Haro</i> (<i>Cananea, Sonora, Mexico</i>).	

Contribution to international meetings & conferences

- Aug 2022 **IAU Symposium 373: Resolving the Rise and Fall of Star Formation in Galaxies.** Online, Busan, South Korea.
E-Talk: *Measuring stellar feedback in galaxy disks.*
- May 2022 **Meeting VII: Science with GTC.** Online
Invited **Talk:** *Measuring gas and energy flows in galaxies.*
- May 2021 **Multi-object Spectroscopy for Statistical Measures of Galaxy Evolution.** Online
Poster: *How much stellar feedback regulates galaxy growth?*
- Aug 2019 **Guillermo Haro Workshop: The Formation and Evolution of Super Star Clusters: Theory and Observations** Tonantzintla, Mexico
Talk: *Detection of self-regulated star formation in disk galaxies*
- Jun 2019 **Feedback and Its Role in Galaxy Formation** Spetses, Greece
Poster: *Detection of self-regulated star formation in disk galaxies*
- Sep 2018 **Guillermo Haro Workshop: Synergy between the GTC and GTM/LMT** Tonantzintla, Mexico
Talk: *Stellar feedback: When, Where, and How?*
- Jul 2018 **The Laws of Star Formation: From the Cosmic Dawn to the Present Universe** Cambridge, United Kingdom
Poster: *Resolved gas properties with the TolTEC millimeter-wavelength camera*
- Apr 2017 **Multi-Scale Star Formation** Morelia, Mexico
Contributed **talk:** *Star formation in interacting galaxies*
- Aug 2016 **CLOUDY: Emission lines in Astrophysics, from gaseous nebulae to quasars** Mexico City, Mexico
Contributed **talk:** *Star formation in interacting galaxies*
- Jun 2015 **EWASS 2015: Symposium 6 The Formation and Destruction of Molecular Clouds** Tenerife, Spain
Contributed **talk:** *Evidence for the non-destruction of the most massive molecular clouds even after the birth of massive star clusters*
- Jun 2015 **EWASS 2015: Special Session 3 3D view on interacting and post-interacting galaxies from clusters to voids** Tenerife, Spain
Contributed **talk:** *Gravity Binding and Pressure Bounding of HII Regions and Molecular Clouds in Interacting Galaxies*
- Jul 2014 **IAUS 309: Galaxies in 3D across the Universe** Vienna, Austria
Poster: *Enhanced star formation characteristics in interacting galaxies*
- Mar 2014 **3D2014: Gas and stars in galaxies: A multi-wavelength 3D perspective** Garching, Germany
Highlight **talk & poster:** *Condition for star formation triggering in interacting galaxies*
- Oct 2013 **Physical processes in the ISM** Garching, Germany
Contributed **talk:** *Two regimes of star formation*
- Aug 2012 **IAUS 292: Molecular Gas, Dust, and Star Formation in Galaxies** Beijing, China
Poster: *Gas Flows and Star Formation in the Interacting Galaxy System Arp 270*

Jul 2012	EWASS 2012, Special Session: Morphology and Kinematics of Interacting galaxies	Rome, Italy
	Contributed talk: <i>Physical and kinematic properties of HII regions in the Arp 270 system</i>	
Apr 2012	Interacting Galaxies and Binary Quasars: A Cosmic Rendezvous	Trieste, Italy
	Contributed talk: <i>The Internal Kinematics of the Interacting Galaxies Arp 270 determined from Fabry-Perot Spectroscopy in Hα</i>	

Contribution to national meetings & conferences

Oct 2021	XXVIII National Congress of Astronomy	Tijuana, Mexico
	Contributed talk: <i>Star formation triggering in the Arp 240 system of interacting galaxies</i>	
Oct 2020	LXIII National Congress of Physics	Morelia, Mexico
	Invited talk: <i>Measuring the role of stellar feedback in the regulation of galaxy growth</i>	
Dec 2019	II Extragalactic meeting in Mexico	Morelia, Mexico
	Contributed talk: <i>Self-regulation of star formation in galaxy discs</i>	
Oct 2018	XXVII National Congress of Astronomy	Puebla, Mexico
	Contributed talk: <i>Measuring the Stellar Feedback in Galaxies</i>	
Sep 2016	I Extragalactic meeting in Mexico	Morelia, Mexico
	Contributed talk: <i>Internal kinematics of ionized and molecular gas in LIRGs</i>	

Talks at Research Institutions

Apr 2023	Instituto de Astronomía-UNAM	Mexico City, Mexico
	Seminar at the Extragalactic Astronomy and Cosmology Department of the Institute of Astronomy-UNAM: <i>Tracing galaxy evolution through stellar populations and metallicity.</i>	
Jan 2023	IPARCOS-UCM	Madrid, Spain
	Colloquia at the Inst. of Particle and Cosmos Physics group (UCM): <i>Tracing galaxy evolution through stellar populations and metallicity.</i>	
Sep 2022	INAOE	Tonantzintla, Mexico
	Seminar at INAOE: <i>Nebular abundance gradient in the Cartwheel galaxy.</i>	
Oct 2018	Instituto de Radioastronomía y Astrofísica-UNAM	Morelia, Mexico
	Colloquia at the Institute of Radioastronomy and Astrophysics-UNAM: <i>Resolved star formation and stellar feedback in galaxies.</i>	
May 2017	East Tennessee State University	Johnson City, USA
	Seminar at the Physics & Astronomy Department of the East Tennessee State University: <i>Star formation in nearby extreme environments.</i>	
Feb 2017	Instituto de Astronomía-UNAM	Mexico City, Mexico
	Seminar at the Extragalactic Astronomy and Cosmology Department of the Institute of Astronomy-UNAM: <i>Star formation in galaxy pairs: from UV to the IR.</i>	
Mar 2016	Instituto de Astronomía-UNAM	Ensenada, Mexico
	Seminar at the Institute of Astronomy-UNAM, Ensenada : <i>Kinematics of star forming regions in interacting galaxies.</i>	

Nov 2015	INAOE Seminar at INAOE: <i>Kinematics of star forming regions in interacting galaxies.</i>	Tonantzintla, Mexico
Oct 2015	Instituto de Astronomía-UNAM Colloquia at the Institute of Astronomy-UNAM: <i>Kinematics and star formation in interacting galaxies.</i>	Mexico City, Mexico
May 2015	Swinburne University of Technology Seminar at Swinburne University of Technology for the Galaxies group: <i>Dynamics of merging galaxies: key steps in the evolution of galaxies.</i>	Melbourne, Australia
Sep 2014	Max Planck Institute for Radio Astronomy Seminar at the Millimeter and Submillimeter Astronomy group: <i>Two physical regimes of star formation in the Antennae galaxies as seen by ALMA and GHαFaS.</i>	Bonn, Germany

Teaching

2022-present	Eliana Isabella Vargas Sánchez, INAOE Supervision of master student at INAOE.	Student supervision
2021-present	Daniela Espitia Mosquera, INAOE Co-supervision of master student at INAOE.	Student supervision
2020-present	Luis Enrique Garduño Puga, INAOE Co-supervision of Ph.D. student at INAOE.	Student supervision
2020	Interstellar Medium Physics, INAOE Master course at the Astrophysics Department at INAOE.	Course
2019-present	Fundamental Astronomy, INAOE Propaedeutic course in the Astrophysics Department at INAOE.	Course
2017	Selected Topics of Astronomy, UNAM Course from the <i>Diplomado</i> in Physics of Science Faculty at UNAM.	Course

Outreach Talks

Dec 2022	Noche de las estrellas, UNAM Outreach talk at <i>Noche de las estrellas</i> , called: <i>Transformaciones galácticas.</i>	Puebla, Mexico
Apr 2022	Martes de Ciencia INAOE Online public talk as part of the <i>Martes de Ciencia con el INAOE</i> programme, about galaxy formation and evolution.	Online
May 2020	Astro ABC INAOE Online public lectures as part of the Astro ABC INAOE course. Lectures were about galaxy formation and evolution.	Online
Sep 2019	Instituto Universitario de Puebla A.C. Public talk at <i>Instituto Universitario de Puebla A.C.</i> for secondary students, called: <i>La nota roja de las galaxias.</i>	Atlixco, Mexico
Mar 2019	Bar Karuzo Public talk at <i>Bar Karuzo</i> as part of the Science in the pub programme, called: <i>La vida secreta de las galaxias.</i>	Puebla, Mexico
Feb 2019	Universidad Iberoamericana de Puebla Public talk at <i>Universidad Iberoamericana de Puebla</i> for engineering students, called: <i>La vida secreta de las galaxias.</i>	Puebla, Mexico

Sep 2018	Guillermo Haro 2018 Workshop, INAOE	Cholula, Mexico
	Public talk at <i>Museo Regional de Cholula</i> as a part of the Guillermo Haro 2018 Workshop, called: <i>La vida oculta de las galaxias</i> .	
Dec 2017	La fiesta de las Ciencias y las Humanidades, UNAM	Mexico City, Mexico
	Outreach talk at <i>Universum, UNAM</i> , called: <i>La vida oculta y terrorífica de las galaxias</i> .	
Aug 2017	Centro Clavius, Universidad Iberoamericana	Mexico City, Mexico
	Outreach talk at <i>Centro Clavius, Universidad Iberoamericana</i> , called: <i>La vida oculta y terrorífica de las galaxias</i> .	
Dec 2016	Noche de las estrellas, UNAM	Mexico City, Mexico
	Outreach talk at <i>Noche de las estrellas, UNAM</i> , called: <i>Formación estelar a lo bestia</i> .	

Computer skills

- Operating systems: Linux-UNIX & Windows.
- Programming languages: Python, IDL, Fortran.
- Expert in datacubes analysis (optical & radio).
- Expert user of High-Performance Computing.
- Advanced user of \LaTeX for scientific work.

Other skills and activities

2023-2025	Project Grant	CONACYT Frontier Science 2023
	Frontier Science 2023 CONACYT Grant of 780K MXN (40K€). PI: Javier Zaragoza-Cardiel.	
2022-2023	GUC member	GTC Users Committee
	Mexican member of the GTC Users Committee (GUC).	
2021-present	SMF member	Sociedad Mexicana de Física
	<i>Sociedad Mexicana de Física</i> member since 2021.	
2020-present	IAU Junior Member	IAU
	International Astronomical Union Junior Member since 2020.	
2019-present	Referee/Reviewer	UNAM
	Referee of PAPIIT projects from UNAM.	
2017-present	Referee/Reviewer	CONACYT
	Referee of PhD and postdocs candidates and projects of CONACYT national and international fellowships.	
2017-2026	Member of Mexico's National System of Researchers	Level I
2015-present	Referee/Reviewer	MNRAS, PASP
	Referee for Monthly Notices of the Royal Astronomical Society since 2015, for Publications of the Astronomical Society of the Pacific since 2019.	

Articles in peer-review journals

- Garduño, L. E., **J. Zaragoza-Cardiel**, M. A. Lara-López, I. A. Zinchenko, M. Zerbo, M. E. De Rossi, J. Fritz, S. Dib, L. S. Pilyugin, M. Sánchez-Cruces, V. Heesen, S. P. O'Sullivan, O. López-Cruz, M. Valerdi, and M. Rosado (submitted). “Metal-THINGS: a panchromatic analysis of the local scaling relationships of the dwarf irregular galaxy NGC 1569”. In: *submitted to MNRAS*.
- Comerón, S., I. Trujillo, M. Cappellari, F. Buitrago, L. E. Garduño, **J. Zaragoza-Cardiel**, I. A. Zinchenko, M. A. Lara-López, A. Ferré-Mateu, and S. Dib (Mar. 2023). “The massive relic galaxy NGC 1277 is dark matter deficient. From dynamical models of integral-field stellar kinematics out to five effective radii”. In: *Submitted to A&A*, arXiv:2303.11360, arXiv:2303.11360. DOI: 10.48550/arXiv.2303.11360. arXiv: 2303.11360 [astro-ph.GA].
- Fernández-Arenas, D., E. Carrasco, R. Terlevich, E. Terlevich, R. Amorín, F. Bresolin, R. Chávez, A. L. González-Morán, D. Rosa-González, Y. D. Mayya, O. Vega, **J. Zaragoza-Cardiel**, J. Méndez-Abreu, R. Izazaga-Pérez, A. Gil de Paz, J. Gallego, J. Iglesias-Páramo, M. L. García-Vargas, P. Gómez-Alvarez, A. Castillo-Morales, N. Cardiel, S. Pascual, and A. Pérez-Calpena (Mar. 2023). “Spatially resolved properties of the ionized gas in the H II galaxy J084220+115000”. In: 519.3, pp. 4221–4240. DOI: 10.1093/mnras/stac3309. arXiv: 2211.06021 [astro-ph.GA].
- Lara-López, M. A., L. S. Pilyugin, J. Zaragoza-Cardiel, I. A. Zinchenko, O. López-Cruz, S. P. O'Sullivan, M. E. De Rossi, S. Dib, L. E. Garduño, M. Rosado, M. Sánchez-Cruces, and M. Valerdi (Jan. 2023). “Metal-THINGS: Association and optical characterization of supernova remnants with H I holes in NGC 6946”. In: 669, A25, A25. DOI: 10.1051/0004-6361/202245068. arXiv: 2210.11878 [astro-ph.GA].
- Mayya, Y. D., J. A. Alzate, L. Lomeli-Núez, **J. Zaragoza-Cardiel**, V. M. A. Gómez-González, S. Silich, D. Fernández-Arenas, O. Vega, P. A. Ovando, L. H. Rodriguez, D. Rosa-González, A. Luna, M. Zamora-Avilés, and F. Rosales-Ortega (June 2023). “The stellar population responsible for a kiloparsec-size superbubble seen in the JWST ‘phantom’ images of NGC 628”. In: 521.4, pp. 5492–5507. DOI: 10.1093/mnras/stad636. arXiv: 2302.12704 [astro-ph.GA].
- Mayya, Y. D., A. Plat, V. M. A. Gómez-González, **J. Zaragoza-Cardiel**, S. Charlot, and G. Bruzual (Mar. 2023). “Detection of He^{++} ion in the star-forming ring of the Cartwheel using MUSE data and ionizing mechanisms”. In: 519.4, pp. 5492–5513. DOI: 10.1093/mnras/stad017. arXiv: 2301.03073 [astro-ph.GA].
- J. Zaragoza-Cardiel**, V. M. A. Gómez-González, D. Mayya, and G. Ramos-Larios (Aug. 2022). “Nebular abundance gradient in the Cartwheel galaxy using MUSE data”. In: *MNRAS* 514.2, pp. 1689–1705. DOI: 10.1093/mnras/stac1423. arXiv: 2205.09150 [astro-ph.GA].
- Gómez-González, V. M. A., Y. D. Mayya, J. A. Toalá, S. J. Arthur, **J. Zaragoza-Cardiel**, and M. A. Guerrero (Jan. 2021). “Wolf-Rayet stars in the Anten-

- nae unveiled by MUSE”. In: *MNRAS* 500.2, pp. 2076–2095. DOI: 10.1093/mnras/staa3304. arXiv: 2010.09781 [astro-ph.GA].
- Mayya, Y. D., E. Carrasco, V. M. A. Gómez-González, **J. Zaragoza-Cardiel**, A. Gil de Paz, P. A. Ovando, M. Sánchez-Cruces, L. Lomeli-Núñez, L. Rodríguez-Merino, D. Rosa-González, S. Silich, G. Tenorio-Tagle, G. Bruzual, S. Charlot, R. Terlevich, E. Terlevich, O. Vega, J. Gallego, J. Iglesias-Páramo, A. Castillo-Morales, M. L. García-Vargas, P. Gómez-Alvarez, S. Pascual, and A. Pérez-Calpena (Oct. 2020). “MEGARA-IFU detection of extended He II $\lambda 4686$ nebular emission in the central region of NGC 1569 and its ionization budget”. In: *MNRAS* 498.1, pp. 1496–1514. DOI: 10.1093/mnras/staa2335. arXiv: 2008.00320 [astro-ph.GA].
- Zaragoza-Cardiel, J.**, J. Fritz, I. Artxaga, Y. D. Mayya, D. Rosa-González, J. E. Beckman, G. Bruzual, and S. Charlot (Nov. 2020). “A quantitative demonstration that stellar feedback locally regulates galaxy growth”. In: *MNRAS* 499.1, pp. 1172–1187. DOI: 10.1093/mnras/staa2906. arXiv: 2009.08992 [astro-ph.GA].
- Zaragoza-Cardiel, J.**, J. Fritz, I. Artxaga, D. Mayya, D. Rosa-González, J. E. Beckman, G. Bruzual, S. Charlot, and L. Lomeli-Núñez (July 2019). “Detection of the self-regulation of star formation in galaxy discs”. In: *MNRAS* 487.1, pp. L61–L66. DOI: 10.1093/mnrasl/slz093. arXiv: 1906.01641 [astro-ph.GA].
- Zaragoza-Cardiel, J.**, B. J. Smith, M. Rosado, J. E. Beckman, T. Bitsakis, A. Camps-Fariña, J. Font, and I. S. Cox (Feb. 2018). “Stellar Population Synthesis of Star-forming Clumps in Galaxy Pairs and Non-interacting Spiral Galaxies”. In: *ApJS* 234.2, 35, p. 35. DOI: 10.3847/1538-4365/aaa255. arXiv: 1712.05408 [astro-ph.GA].
- Camps-Fariña, A., **J. Zaragoza-Cardiel**, J. E. Beckman, J. Font, P. F. Velázquez, A. Rodriguez-González, and M. Rosado (July 2017). “Physical properties of superbubbles in the Antennae galaxies”. In: *MNRAS* 468.4, pp. 4134–4142. DOI: 10.1093/mnras/stx551. arXiv: 1703.02902 [astro-ph.GA].
- Zaragoza-Cardiel, J.**, J. Beckman, J. Font, M. Rosado, A. Camps-Fariña, and A. Borlaff (Mar. 2017). “Kinematics of the ionized and molecular gas in nearby luminous infrared interacting galaxies”. In: *MNRAS* 465.3, pp. 3461–3474. DOI: 10.1093/mnras/stw2963. arXiv: 1611.03863 [astro-ph.GA].
- Camps-Fariña, A., J. E. Beckman, J. Font, A. Borlaff, **J. Zaragoza-Cardiel**, and P. Amram (Sept. 2016). “Three supernova shells around a young M33 star cluster”. In: *MNRAS* 461.1, pp. L87–L91. DOI: 10.1093/mnrasl/slw106. arXiv: 1605.06403 [astro-ph.GA].
- Smith, B. J., **J. Zaragoza-Cardiel**, C. Struck, S. Olmsted, and K. Jones (Mar. 2016). “A Comparative Study of Knots of Star Formation in Interacting versus Spiral Galaxies”. In: *AJ* 151.3, 63, p. 63. DOI: 10.3847/0004-6256/151/3/63. arXiv: 1601.02664 [astro-ph.GA].
- Camps-Fariña, A., **J. Zaragoza-Cardiel**, J. E. Beckman, J. Font, B. Garcia-Lorenzo, S. Erroz-Ferrer, and P. Amram (Mar. 2015). “BUBBLY: a method for detecting and characterizing interstellar bubbles using Fabry-Perot spec-

- troscopy”. In: *MNRAS* 447.4, pp. 3840–3848. DOI: 10.1093/mnras/stu2623. arXiv: 1412.3378 [astro-ph.IM].
- Zaragoza-Cardiel, J.**, J. E. Beckman, J. Font, B. Garcia-Lorenzo, A. Camps-Fariña, K. Fathi, P. A. James, S. Erroz-Ferrer, J. Barrera-Ballesteros, and M. Cisternas (Aug. 2015). “Comparative internal kinematics of the H II regions in interacting and isolated galaxies: implications for massive star formation modes”. In: *MNRAS* 451.2, pp. 1307–1330. DOI: 10.1093/mnras/stv1024. arXiv: 1505.01497 [astro-ph.GA].
- Font, J., J. E. Beckman, **J. Zaragoza-Cardiel**, K. Fathi, B. Epinat, and P. Amram (Oct. 2014). “The ratio of pattern speeds in double-barred galaxies.” In: *MNRAS* 444, pp. L85–L89. DOI: 10.1093/mnrasl/slu120. arXiv: 1408.4274 [astro-ph.GA].
- Zaragoza-Cardiel, J.**, J. Font, J. E. Beckman, B. Garcia-Lorenzo, S. Erroz-Ferrer, and L. Gutiérrez (Dec. 2014). “Two physical regimes for the giant H II regions and giant molecular clouds in the Antennae galaxies”. In: *MNRAS* 445.2, pp. 1412–1423. DOI: 10.1093/mnras/stu1847. arXiv: 1409.1251 [astro-ph.GA].
- Zaragoza-Cardiel, J.**, J. Font-Serra, J. E. Beckman, J. Blasco-Herrera, B. Garcia-Lorenzo, A. Camps, O. Gonzalez-Martin, C. Ramos Almeida, N. Loiseau, and L. Gutiérrez (June 2013). “Kinematics of Arp 270: gas flows, nuclear activity and two regimes of star formation”. In: *MNRAS* 432.2, pp. 998–1009. DOI: 10.1093/mnras/stt527. arXiv: 1303.5020 [astro-ph.CO].

Conference proceedings

- McCrackan, M., Z. Ma, N. S. DeNigris, C. Ryan, K. Souccar, G. W. Wilson, I. Aretxaga, A. Bij, L. Fissel, J. E. Golec, R. Gutermuth, D. Lee, G. Novak, F. Thiel, S. Walker, and **Javier Zaragoza-Cardiel** (Aug. 2022). “The TolTEC camera: the citlali data reduction pipeline engine”. In: *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*. Vol. 12189. Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 121891H. DOI: 10.1117/12.2629095.
- Ma, Z., M. McCrackan, N. S. DeNigris, K. Souccar, G. W. Wilson, P. Horton, D. Lee, P. Mauskopf, G. Novak, I. Rodríguez-Montoya, and **J. Zaragoza-Cardiel** (Dec. 2020). “The TolTEC data analysis pipeline and software stack”. In: *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*. Vol. 11452. Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 114522O. DOI: 10.1117/12.2560735.
- Zaragoza-Cardiel, J.**, J. Beckman, J. Font, A. Camps-Fariña, B. Garcia-Lorenzo, and A. Serrano-Borlaff (Mar. 2017). “Evidence for the non-destruction of the Most Massive Molecular Clouds even after they have given Birth to Massive Star Clusters”. In: *Formation, Evolution, and Survival of Massive Star Clusters*. Ed. by Charbonnel, C. and A. Nota. Vol. 316, pp. 135–136. DOI: 10.1017/S1743921315008959.

- Zaragoza-Cardiel, J.**, J. Beckman, J. Font, A. Camps-Fariña, B. García-Lorenzo, and A. Serrano-Borlaff (Jan. 2016). “Gravity Binding and Pressure Bounding of Hii regions and Molecular Clouds in Interacting Galaxies”. In: *From Interstellar Clouds to Star-Forming Galaxies: Universal Processes?* Ed. by Jablonka, P., P. André, and F. van der Tak. Vol. 315, E84. doi: [10.1017/S1743921316008474](https://doi.org/10.1017/S1743921316008474).
- Camps-Fariña, A., J. Beckman, **J. Zaragoza-Cardiel**, J. Font, and K. Fathi (Feb. 2015). “Fabry-Perot spectroscopy: a powerful method for detecting superbubbles in galaxy discs”. In: *Galaxies in 3D across the Universe*. Ed. by Ziegler, B. L., F. Combes, H. Dannerbauer, and M. Verdugo. Vol. 309, pp. 303–303. doi: [10.1017/S1743921314009995](https://doi.org/10.1017/S1743921314009995).
- Camps-Fariña, A., J. Beckman, **J. Zaragoza-Cardiel**, J. Font, K. Fathi, P. F. Velázquez, and A. Rodríguez-González (Feb. 2015). “Kinematic properties of superbubbles in the Antennae, M83 and Arp 270”. In: *Galaxies in 3D across the Universe*. Ed. by Ziegler, B. L., F. Combes, H. Dannerbauer, and M. Verdugo. Vol. 309, pp. 304–304. doi: [10.1017/S174392131401000X](https://doi.org/10.1017/S174392131401000X).
- Zaragoza-Cardiel, J.**, J. E. Beckman, J. Font, A. Camps-Fariña, B. García-Lorenzo, and S. Erroz-Ferrer (Feb. 2015). “Star formation enhancement characteristics in interacting galaxies”. In: *Galaxies in 3D across the Universe*. Ed. by Ziegler, B. L., F. Combes, H. Dannerbauer, and M. Verdugo. Vol. 309, pp. 354–354. doi: [10.1017/S174392131401045X](https://doi.org/10.1017/S174392131401045X).
- Font, J., J. E. Beckman, **J. Zaragoza**, B. Garcia-Lorenzo, and L. Gutiérrez (Oct. 2013). “Mapping the H α Emission Line from Interacting Galaxies with GHaFaS: The Case of ARP 271”. In: *Galaxy Mergers in an Evolving Universe*. Ed. by Sun, W.-H., C. K. Xu, N. Z. Scoville, and D. B. Sanders. Vol. 477. Astronomical Society of the Pacific Conference Series, p. 275.