

ANA TORRES CAMPOS

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EDUCATION

Ph.D. in Astrophysics

2010-

Instituto Nacional de Astrofísica, Óptica y Electrónica

Thesis: *Mapping the star formation of HII galaxies.*

Supervisors: Dr. Daniel Rosa-González, Dra. Elena Terlevich y Dra. Ángeles Díaz Beltrán

Ms.C. in Astrophysics

2006-2009

Reconocimiento por mejor promedio

Instituto Nacional de Astrofísica, Óptica y Electrónica

Thesis: *La eficiencia de calentamiento del material reinsertado por vientos estelares y supernovas en súper cúmulos estelares*

(The heating efficiency of the material reinserted by stellar winds and supernovae in super stellar clusters)

Supervisors: Dr. Sergiy Silich, Dr. Guillermo Tenorio-Tagle y Dra. Casiana Muñoz-Tuñón

Telematics Engineering

2000-2006

Instituto Nacional Autónomo de México

Thesis: *Estudio de los métodos clásicos y ondeletas para la determinación de periodos de estrellas variables.*

(Study on the classic methods and wavelengths to determine the periods of variable stars)

Supervisors: Dr. Francisco J. García Ugalde y Dr. Omar López Cruz

TECHNICAL SKILLS

Languages

Spanish (Native), English (Advanced)

Operating Systems

Windows, Mac OS, Linux

Programming languages

C++, Fortran

Office applications

Microsoft Office, Keynote, Pages, Gimp, Inkscape

Astrophysics applications

Emacs, Latex, IDL, IRAF, MATLAB, SExtractor

EXPERIENCE

Observing time allocations

I participated in the making of three observing proposals (2010 - 2012) for the 4 meter SOAR telescope. With the allocated time photometry of H II galaxies was taken using SOI optical camera and Spartan NIR camera.

I participated in the making of an observing proposal (2012) for 2.1 meter San Pedro Mrtir telescope. With the allocated time photometry of H II galaxies was taken using Camila infrared camera. The observations were carried by Dr. Elena Terlevich and myself.

Research internships

- XXIII Canary Islands Winter School on Astrophysics. Secular evolution of galaxies. November 14 to 25 2001, Tenerife (Spain)
- Research internship at the Universidad Autnoma de Madrid under the supervision of Dr. Angeles Daz. September 2011 to August 2012, Madrid (Spain)

- Research internship at the Instituto de Astrofísica de Canarias under the supervision of Dr. Casiana Muñoz Tuñ. October to December 2007, Tenerife (Spain)

FELLOWSHIPS

Apoyo a Becario del proyecto CONACYT CB-2011/167281

February to July 2014

Extensión de Beca Nacional de Doctorado CONACYT.

January to December 2013

Beca Mixta de CONACYT para estancia de investigación en la Universidad Autónoma de Madrid.

September 2011 to August 2012

Beca Nacional de Doctorado CONACYT.

January 2010 to December 2012

Beca Nacional de Maestra CONACYT.

August 2006 to July 2008

PUBLICATIONS

Refereed Journals

- *On the heating efficiency derived from observations of young super star clusters in M82*
Silich S., Tenorio-Tagle G., Torres-Campos A., Muñoz-Tuñón C., Monreal-Ibero A., Melo V.
2009, The Astrophysical Journal, vol. 700, pp. 931-936
- *A hybrid knowledge-based and evolutionary process model of airport gates scheduling*
Gómez de Silva Garza A., Torres Campos Licastro A. P. and Ogando Justo R. M.
2004, International Journal of uncertainty, fuzziness and knowledge-based systems, vol. 12, pp. 43-62

Conference proceedings

- *Star formation in H II galaxies*
Torres-Campos A., Díaz A., Terlevich E., Rosa-González D., Telles E. and Terlevich R.
2013, Highlights of Spanish Astrophysics VII, Proceedings of the X Scientific Meeting of the Spanish Astronomical Society (SEA)
- *H and [OIII] emission line maps of Mrk 1318 and Tol 1358-328. Characterising the star formation in HII galaxies*
Torres-Campos A., Rosa-González D., Terlevich E., Telles E., Terlevich R. and Schmitt H. R.
2011, XIII Latin American Regional IAU Meeting, Revista Mexicana de Astronomía y Astrofísica (Serie de Conferencias) Vol. 40, pp. 102-103

CONFERENCE PRESENTATIONS

Guillermo Haro Conference in Advanced Astrophysical Research

2D Star formation history in Tol 0957-278 (Poster)

Puebla (2013)

II Reunión de Estudiantes de Astronomía

Mapeando la historia de formación estelar en Tol 0957-278 (Charla)

Puebla (2013)

XXV Congreso Nacional de Astronomía <i>Historia de formación estelar 2D n la galaxia H II Tol 0957-278 (Charla)</i>	<i>Ciudad de México (2008)</i>
X Reunión científica de la sociedad española de Astronomía <i>Formación estelar resuelta en galaxias H II (Poster)</i>	<i>Valencia (2012)</i>
XXIV Congreso Nacional de Astronomía <i>Formación estelar en galaxias H II (Poster)</i>	<i>Guadalajara (2011)</i>
First International Symposium os Science with the SOAR Telescope <i>Study or ionized regions in H II galaxies (Charla)</i>	<i>Maresias (2011)</i>
XIII Latin American Regional IAU Meeting <i>Hα and [OIII] emission line maps of Mrk 1318 and Tol 1358-328. Characterising the star formation in H II galaxies.</i>	<i>Morelia (2010)</i>
Guillermo Haro Workshop in Advanced Astrophysical Research <i>Hα and OIII emission line maps of Tol 1358-328 and Mrk 1318. Characterizing the star formation in HII galaxies. (Charla)</i>	<i>Puebla (2010)</i>
XXII Congreso Nacional de Astronomía, Día del estudiante <i>Sobre la retroalimentación de SCE en galaxias con formación estelar (Charla)</i>	<i>Ciudad de México (2008)</i>
Estallidos Workshop VII <i>Sobre la retroalimentación de SCE en galaxias con formación estelar (Poster)</i>	<i>Tenerife (2007)</i>

OUTREACH ACTIVITIES

Public talks to elementary school groups (2008-2011)
 Instituto Nacional de Astrofísica, Óptica y Electrónica

Astronomy lectures on the “Taller de Ciencia para jóvenes” (2009 - 2011)
 Instituto Nacional de Astrofísica, Óptica y Electrónica

Short public talks on the Feria Internacional de lectura (2009 - 2011)
 Instituto Nacional de Astrofísica, Óptica y Electrónica

EXTRACURRICULAR

Course in Avant-Guard art of the XX century in Europe and Mexico 1900-1968 *2013*
 Puebla
 Museo Amparo y el Instituto de Investigaciones Estéticas de la UNAM
 154 hours classroom course

Course on introduction to wine tasting, wine sensorial analysis *2012*
 Escuela Española de Cata *Madrid*
 8 horas classroom course

From the collection to the museum. From the museum to art history: an itinerary *2012*
 Universidad Nacional de educación a distancia y Museo Thyssen *Madrid*
 35 hours classroom course