
Curriculum Vitae
Jesús López Hernández
February 2018

Address Manuel Doblado 2072
 Col. Miguel Hidalgo
 Culiacán, Sin.
 México C.P. 80090
email: jesus.lopezh@uas.edu.mx
Nationality: Mexican
Phone: (+52) 222 188 1201

Positions:

Aug/2016-Today:

Full time professor-researcher for the “Universidad Autonoma de Culiacán” (UAS).
Main activity: teaching Astronomy subjects for undergrads (Interstellar Medium,
Radiative processes, Relativity, Stellar interiors, Stellar Atmospheres, Cosmology)

Mar/2016-Aug/2016:

Software analyst for the Large Millimeter Telescope (LMT/GTM).
Main project: Implementation and analysis of reduction pipelines.

Jan/2014-Feb/2016:

Research Fellow, Department of Astronomy, University of Michigan.
In collaboration with Dr. Sally Oey.
Main project: Fraction of ionizing photons escaping from HII regions.

Education:

- 2006-2013: Ph.D. Astrophysics, National Institute for Astrophysics, Optics and Electronics (INAOE)
 Advisors: Roberto Terlevich, Elena Terlevich, Daniel Rosa.
 “Integral Field Spectroscopy of HII regions in Spiral Galaxies”
- 2009-2010: One year research visit to the Institute for Astronomy at the University of Hawaii. In
 collaboration with Dr. Fabio Bresolin.
- 2002-2005: Master in Astrophysics,

National Institute for Astrophysics, Optics and Electronics (INAOE)
Defended: November 2005
Advisors: Roberto Terlevich and Elena Terlevich
“Statistical Properties of HII galaxies from the SDSS”

1993-1997: Bachelor in Electronic Engineering, minor in Computer Science.
Monterrey Institute of Technology and Higher Studies (ITESM)

Awards:

2006-2010: Mexican Council of Science and Technology master scholarship.

2002-2004: Mexican Council of Science and Technology doctoral scholarship.

Professional Experience:

2000 – 2002 Real Time Services
Position: Software Engineer
Activities included development of Web based modules for payroll processing, integration of access control and surveillance hardware with the payroll system. Coordination of 5-7 people teams.

1997 – 2000 ActiveWords Systems
Position: Software Engineer
Activities included development and implementation of modules for mathematics, text translation, virtual sticky-note. Design and development of libraries for interaction with third party software (Lotus Notes, Office, Netscape, IBM Via-Voice).

Publications:

Oey, M. S.; **López-Hernández, J.**; Kellar, J. A.; Pellegrini, E. W.; Gordon, K. D.; Jameson, K. E.; Li, A.; Madden, S. C.; Meixner, M.; Roman-Duval, J.; Bot, C.; Rubio, M.; Tielens, A. G. G. M.
Dust Emission at 8 and 24 μm as Diagnostics of H II Region Radiative Transfer
The Astrophysical Journal, Volume 844, Issue 1, article id. 63, pp. (2017)

López-Hernández, J.; Terlevich, R.; Terlevich, E.; Rosa-González, D.; Diaz, A.; García-Benito, R.; Vílchez, J.; Hägele, G.; Integral Field Spectroscopy of HII regions in M33.

Monthly Notices of the Royal Astronomical Society, Volume 430, Issue 1, p.472

López-Hernández, J.; Terlevich, R.; Terlevich, E.; Bresolin, F.; Integral Field Spectroscopy of Giant HII regions in M101. *In progress*

García-Benito, R.; Díaz, A.; Hägele, G. F.; Pérez-Montero, E.; **López, J.;** Vílchez, J. M.; Pérez, E.; Terlevich, E.; Terlevich, R.; Rosa-González, D.;

Integral field spectroscopy of HII region complexes: the outer disc of NGC6946

Monthly Notices of the Royal Astronomical Society, Volume 408, Issue 4, pp. 2234

López, Jesús; Bresolin, Fabio; Terlevich, Elena; Terlevich, Roberto; Rosa-González, Daniel.; 2009, Ap&SS, 324, 351, Integral-field high spatial resolution spectroscopy of the giant HII region NGC5461

López-Hernández, J.; Rosa-González, D.; Terlevich, E.; Terlevich, R.; 2009, nqsa.conf, 117, Weak X-ray Galaxies in the Chandra Deep Field South: Searching for an Early Stage of Star Formation

Terlevich, R.; **López, J.;** Terlevich, E. 2007, IAUS, 235, 284.; Downsizing in HII galaxies

Others:

Computing Astronomical tools: IRAF, PyRAF, Cfitsio, E3d, R3D
Languages: C/C++, IDL, Python, HTML, Javascript, SQL.
Relational database managers: MySQL, PostgreSQL.

Outreach Talks for the public in the Schmidt Camera and Solar telescope at INAOE.
Collaboration in the “Nigh of the Stars” sessions with amateur astronomers.
Support in visits to the Large Millimeter Telescope site for the general public.

English 7.5/9 (IELTS)
634 (TOEFL)