José R. Sánchez-Gallego

CONTACT INFORMATION

Full name: José Ramón Sánchez-Gallego
Address: Department of Astronomy
University of Washington
Physics-Astronomy Bldg,
Seattle WA 98195. USA.
Date of birth: 25/11/1983

Phone: +1 (859) 489 3239
E-mail: gallegoj@uw.edu
Nationality: Spanish

RESEARCH POSITIONS

Jan. 2016 - present Research Associate at University of Washington.

Jan. 2013 - Jan 2016 Postdoctoral Scholar at University of Kentucky. Supervisor: Prof. Renbin Yan.

PHD AND EDUCATION

Sept. 2008 - Nov. 2012 PhD student at Instituto de Astrofíca de Canarias. Advisor: Prof. Johan H. Knapen. Thesis topic: "Dust, gas and star formation in local galaxies". Awarded *Sobresaliente Cum Laude*.

Sept. 2008 - June 2009 Master in Astrophysics. University of La Laguna, Tenerife, Spain. Master thesis entitled "Stars, gas and dust: assessing the fuel for star formation in nearby galaxies". Director: Prof. Johan H. Knapen. Awarded 9/10.

Sept. 2006 - June 2008 Astrophysics Degree. University of La Laguna, Tenerife, Spain. Graduating thesis on "Physical parameters and chemical abundances of the H II region NGC 2359". Advisor: Prof. César Esteban. Awarded *Matrícula de honor* (Top 1-5%).

Sept. 2001 - Sept. 2006 Physics Degree. University of Murcia, Murcia, Spain.

RESEARCH INTERESTS

Star formation in galaxies. Quenching of star formation. Calibration of star formation. Molecular gas in galaxies. Large datasets in astronomy. Data analysis.

GRANTS AND AWARDS

Nov. 2014 - present SDSS-IV Architect.

Jan 2014 - present MaNGA plate designer.

Sep. 2007 - June 2008 Collaboration grant with University of La Laguna Astrophysics Department. Advisor: Prof. Fernando Pérez Hernández. Topic: *Ténicas de detección de campos magnéticos en el interior del sol por medio de la heliosismología local*.

Aug. - Sep. 2007 *X Mainz Summer Program* (Mainz University, Germany) working on the development of the proton spectrometer *aSPECT*.

Sep. 1999 - Sep. 2003 Spanish government grant to follow university degree studies.

Teacher Assistantships

Spring 2017 - present Research supervisor of undergraduate Christina Lindberg.

2008 - 2012 Introduction to scientific computation. Photometry techniques in Astrophysics. Electromagnetics. Particles simulations using a JAVA environment. Computational physics.

Selected talks and symposia

Jun. 2013 AAS meeting 222. Contributed talk titled "Gas, Dust and Star Formation in Nearby Galaxies: The JCMT Perspective."

Aug. 2012 IAU XXVIII General Assembly. Contributed talk titled "Gas, Dust and Star Formation in Nearby Galaxies as Seen with the JCMT" during the "Molecular Gas, Dust and Star Formation in Galaxies" symposium.

Aug. 2012 IAU XXVIII General Assembly. Contributed talk titled "Star formation, dust and gas content in Nearby Galaxies as seen with the JCMT." during the "Star-Formation Rate calibrations across the Electromagnetic Spectrum" special session.

July 2009 YERAC meeting in Porto, Portugal. Presented talk: "Gas and star formation in M 81 using new JCMT and INT data".

Nov. 2008 Winter School on *Cosmology in the Local Universe*. Instituto de Astrofíca de Canarias. Presented poster: "Hα imaging of JCMT Nearby Galaxies Legacy Survey Targets".

Observational experience

Optical telescopes Isaac Newton Telescope, William Herschel Telescope, Nordic Optical Telescope, IAC-80, Apache Point Observatory ($>$ 50 nights)

Radio and submillimetre telescopes James Clerk Maxwell Telescope, IRAM-30, CSO (18 nights)

Infrared telescopes Telescopio Nazionale Galileo (4 nights).

Computer Abilities

Sept. - Dec. 2011: Online course on *Machine Learning* at the University of Stanford.

Programming languages:

Expert user: Python, C, UNIX shell scripting, Basic, Visual Basic.

Occasional user: JAVA, SQL, and QT.

Scientific languages:
Expert user: Fortran, IDL, IRAF, Pyraf, LaTeX.
Occasional user: MatLab, Mathematica.

Web languages:
Expert user: Flask, PHP, HTML.
Occasional user: ASP, JavaScript, CSS.

Databases:
PostgreSQL, MySQL.

Other astronomical tools:

Stellar population fitting: pPFX, FIT3D, Gandalf, MaNGA Data Analysis Pipeline.

Python packages: Astropy, Numpy, Scipy, astropysics, SQLAlchemy, pandas, pyEphem, astroML.

Familiar with the data reduction pipelines for MaNGA and BOSS at APO, HARP-B and Scuba-2 at JCMT, and with general techniques for reduction of imaging and spectral data.