

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. *Phone:* +1 (859) 489 3239
Date of birth: 25/11/1983 *E-mail:* gallegoj@uw.edu
Nationality: Spanish
- RESEARCH POSITIONS**
Jan. 2020 - present Acting Assistant Professor at University of Washington.
Jan. 2016 - Dec 2019 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 Astrofísica 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.
Sept. 2007 - June 2008 Collaboration grant with University of La Laguna Astrophysics Department. Advisor: Prof. Fernando Pérez Hernández. Topic: *Técnicas 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

Winter 2019 - Fall 2020 Research supervisor of undergraduate Aidan Berres.

Spring 2017 - Winter 2017 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

Dec. 2020 SPIE Astronomical Telescopes + Instrumentation 2020. Contributed talk titled “Multi-object spectroscopic operations with the Sloan Digital Sky Survey V”.

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 M81 using new JCMT and INT data”.

Nov. 2008 Winter School on *Cosmology in the Local Universe*. Instituto de Astrofísica de Canarias. Presented poster: “H α 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, L^AT_EX.

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.