

Laura Scholz Díaz

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WORK EXPERIENCE

- Jul 2019 - **Astrophysics research traineeship.** Max-Planck Institute for Astronomy.
Sep 2019 Heidelberg, Germany. “*Stellar population properties of SDSS galaxy clusters*”. Supervised by Ignacio Martín Navarro.
- Nov 2015 - **Collaborator / *Becaria de colaboración*.** Department of Physics,
Jun 2016 University of La Laguna, Spain. “*Study of energy transfer between molecules of biological interest*”. Supervised by Fernando Lahoz Zamarro.

EDUCATION

- Oct 2020 - **Ph.D. in Astrophysics.** Instituto de Astrofísica de Canarias and University of
Present La Laguna, Spain. “*Probing the extremes of black hole feedback through stellar populations analyses*”. Supervised by Ignacio Martín Navarro and Jesus Falcón Barroso
- Sep 2018 - **Master’s degree in Astrophysics. Specialty: Theoretical and**
Jul 2020 **Computational Astrophysics.** University of La Laguna, Spain. (Grade: 9.3)·
“*The source of gas fuelling star-formation in EAGLE galaxies*”. Supervised by Claudio Dalla Vecchia and Jorge Sánchez Almeida.
- Sep 2012 - **Bachelor’s degree in Physics.** University of La Laguna, Spain. (Grade: 9.04)·
Jul 2016 “*Study of energy transfer between molecules of biological interest*”. Supervised by Fernando Lahoz Zamarro and Mario Díaz González.

PUBLICATIONS

L. Scholz-Díaz; J. Sánchez Almeida; C. Dalla Vecchia, 2021. *History of the gas fuelling star formation in EAGLE galaxies* (accepted for publication in MNRAS) [arXiv:2106.02478](https://arxiv.org/abs/2106.02478)

TELESCOPE PROPOSALS

· **INT/IDS (PI: L. Scholz-Díaz)** (11 nights) *Do black holes regulate the baryonic cycle of dark matter halos? UV-powered star formation histories of golden mass galaxies*

TALKS & POSTERS

- 28 Jun - **Poster at the EAS2021 (virtual), European Astronomical Society**
2 Jul **Annual Meeting “Stellar population properties across the stellar-to-halo-mass relation”** Scholz-Díaz, L.; Martín-Navarro, I.; Falcón-Barroso, J. [Poster](#)

10 - 11 Jun **Talk at the XII DNC 2021 (virtual), IAC.** *"The role of dark matter halos in regulating the stellar population properties of galaxies"*

ACQUIRED SKILLS

Extensive knowledge of programming with **Python**, **IDL** and **Fortran 90**

Knowledge of **parallel programming with MPI**

Experience analyzing the outputs of **SPH cosmological hydrodynamical simulations**

Experience with the use of **SQL database**

Experience analyzing **spectral SDSS data**

Experience analyzing **IFU SAURON data cubes**

Experience reducing and analyzing **optical images with IRAF and ds9**

COMPLEMENTARY EDUCATION

Jun 2020 **Code/Astro: A software engineering workshop for astronomy.**
(5 days) Supported by the Heising-Simons Foundation. (Virtual workshop)

LANGUAGES

May 2018 **German level B1** certified by the EOI La Laguna.

Jun 2017 **English level C1 (grade A)** in the FCE of Cambridge English.

OTHER EXPERIENCE AND ACTIVITIES

April 2021 **Participant at the Extragalactic Spectroscopic Surveys: Past, Present and Future of Galaxy Evolution conference (GALSPEC2021).** (ESO in Chile, moved to virtual conference)

Jul 2020 **Participant at the Spanish Astronomical Society (SEA) scientific meeting 2020.** La Laguna, Spain (moved to a virtual conference).

Jun-Jul 2020 **Volunteer at the European Astronomical Society Annual Meeting (EAS2020).** Leiden, Netherlands (moved to a virtual conference).

Jun-Jul 2020 **Participant at the European Astronomical Society Annual Meeting (EAS2020).** Leiden, Netherlands (moved to a virtual conference).

Sep 2014 - Mar 2015 **Member of the organizing committee of the COEFIS VIII (VIII Congreso de Estudiantes de Física).** University of La Laguna, Spain.