

Personal

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Skills

| | |
|----------------------|-----------|
| Python | ● ● ● ● ● |
| Linux | ● ● ● ● ● |
| HPC Slurm | ● ● ● ● ● |
| Git/GitHub/GitLab | ● ● ● ● ● |
| Wolfram Mathematica | ● ● ● ● ● |
| CI/CD | ● ● ● ● ● |
| Machine Learning | ● ● ● ● ● |
| C++/C | ● ● ● ● ● |
| SQL | ● ● ● ● ● |
| HTML | ● ● ● ● ● |
| JAVA | ● ● ● ● ● |
| Communication skills | ● ● ● ● ● |
| Team worker | ● ● ● ● ● |

Languages

| | |
|---------|-----------|
| Spanish | ● ● ● ● ● |
| English | ● ● ● ● ● |
| French | ● ● ● ● ● |
| German | ● ● ● ● ● |
| Russian | ● ● ● ● ● |

Interests

- Gospel singing
- Hiking
- Travelling

Work experience

- SPAN Fellow** Nov 2021 - Mar 2022
Space Academic Network
Support and generation of Space Case Studies towards CMIN22
- Euclid Postdoctoral Fellow** Jan 2021 - Aug 2022
University of Portsmouth, Portsmouth
Validation Team Lead Level 3 Euclid Science Ground Segment
Coordinator and Developer of the SkyPy project
Junior Representative Euclid Consortium ECICIC
Liaison between ICG Portsmouth and JPL NASA
CubeSat Project support
- Postdoctoral Research Associate** Sep 2019 - Jan 2021
University of Manchester, Manchester
Research on Weak Lensing Cosmology
Co-founder of the SkyPy project
Member of the Dark Energy Survey
Masters Project Supervisor
- Private Tutor** Nov 2018 - Aug 2019
Academy Eureka, Montilla
Learning support, Secondary and A-levels students. Science, Maths and English.
- Associate Tutor** Sep 2014 - Jul 2017
University of Sussex, Brighton
Workshop delivery and learning support for Undergraduates and Masters students

Education and Qualifications

- PhD in Theoretical Cosmology** Sep 2014 - Oct 2018
University of Sussex, Brighton
- Masters Degree in Education** Sep 2016 - Jul 2019
Distance Learning University of Madrid, Madrid
- Masters Degree in Cosmology** Sep 2013 - Jul 2014
University of Aix-Marseille, Marseille
- Bachelor Degree in Theoretical Physics** Sep 2008 - Jul 2013
Complutense University of Madrid, Madrid

Courses

- Private Pilot Licence** Mar 2021 - Present
LAC Flying School
- Associate Tutor** Sep 2014 - Jul 2015
The Higher Education Academy
- Introduction to Machine Learning** Jan 2020 - May 2020
Udacity

Awards and Recognitions

- **Sussex Astronomy Centre Thesis Prize**, 2018, University of Sussex, UK. Outstanding thesis and excellent defence.
 - **Joint STFC-MPS Studentship (£53,520.5)**, 2014-2018, STFC. PhD studentship by the Science and Technology Facilities Council and the University of Sussex.
 - **Physics Olympics**, 2008, RSEF Spanish Royal Society of Physics, Spain. Second Place in the local phase.
 - **High School Honour Distinction**, 2008, I.E.S Inca Garcilaso, Spain. Highest A-level grades of the class of 2008.
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Leadership and Communication Skills

Leadership skills

- Validation Lead of the galaxy clustering selection function for the ESA Euclid-SGS experiment, leading the validation exercise of the different processing functions, devising strategies to foster teamwork and efficiency, responsible for passing Maturity Gates and Readiness Review, Risk Register and preparation of the UK-SA SPRP reviews.
- Coordinator of the SkyPy project, planning and organising the main activities of the collaboration, taking an active role in advertising the project, fostering members' motivation, organising meetings, agenda, research and development.
- Leading my own research projects in collaboration with international universities.
- Mentored two MPhys students, developing a successful scientific project and preparing them with a range of skills for PhD applications and the job market in general.

Communication skills

- Delivered over 30 talks at major national and international scientific conferences, departmental seminars, and Journal Clubs, in 9 different countries. Full list of talks and seminars <https://howtoeachthecosmos.jimdofree.com/seminars/>.
 - Presented posters at major international scientific conferences.
 - Experience presenting scientific developments to the general public through public talks, workshops, and outreach activities for secondary school students.
 - Experience publishing in leading scientific journals, <https://orcid.org/0000-0002-1064-3400>.
 - Author and maintainer of my own professional website.
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Software

- **L. F. de la Bella**, `unequalpy`, Nov., 2020. 10.5281/zenodo.4268314.
 - N. Tessore and **L. F. de la Bella**, `corfu`, Nov., 2020. 10.5281/zenodo.4268486.
 - **SkyPy Collaboration**, `Skypy`, Apr., 2020. 10.5281/zenodo.4071945.
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Publications

- **de la Bella, L. F.** and Amara, A. and Birrer, S. and Hartley, W.G. and Sudek, P. (2021), Quenching and Galaxy Demographics. Submitted to MNRAS.
- Sudek, P. and **de la Bella, L. F.** and Amara, A. and Hartley, W.G. (2021), The Sensitivity of the Redshift Distribution to Galaxy Demographics. Submitted to MNRAS.
- **The SkyPy Collaboration** (2021), The SkyPy Project. Journal of Open Source Software, 6(65), 3056, <https://doi.org/10.21105/joss.03056>.
- **de la Bella, L. F.** and Tessore, N. and Bridle, S. (2020), The unequal-time matter power spectrum: impact on weak lensing observables, arXiv 2011.06185.
- **de la Bella, L. F.**, Regan, D., Seery, D. and Parkinson, D. (2018), Impact of bias and redshift-space modelling for the halo power spectrum: Testing the effective field theory of large-scale structure, DOI: 10.1088/1475-7516/2020/07/011.
- **de la Bella, L. F.**, Regan, D., Seery, D. and Hotchkiss, S. (2017), The matter power spectrum in redshift space using effective field theory, DOI: 10.1088/1475-7516/2017/11/039.
- Cortez, J., **de la Bella, L. F.**, Martin-de Blas, D. and Mena Marugan, G. (2012), DOI: 10.1103/physrevd.87.044013.