

Pablo Lemos, Ph.D.

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Employment History

2018 – ... 📌 **Postdoctoral Research Fellow**, University College London.

Education

- 2015 – 2018 📌 **Ph.D., University of Cambridge** Institute of Astronomy.
Thesis title: *Tests of the Planck Cosmology at High and Low Redshifts*.
- 2013 – 2015 📌 **MSci., The University of Chicago** in Physics.
Thesis title: *Cosmological Corrections due to vorticity*.
- 2009 – 2013 📌 **Bachelor., Universidad Complutense de Madrid** in Physics.

Selected Publications

- 1 **Lemos, Pablo**, Jeffrey, N., Whiteway, L., Lahav, O., Libeskind, N. I., & Hoffman, Y. (2020). The sum of the masses of the Milky Way and M31: a likelihood-free inference approach, arXiv 2010.08537.
- 2 **Lemos, Pablo**, Lee, E., Efstathiou, G., & Gratton, S. (2019). Model independent $H(z)$ reconstruction using the cosmic inverse distance ladder. *Mon. Not. Roy. Astron. Soc.*, 483(4), arXiv 1806.06781, 4803–4810.
🔗 <https://doi.org/10.1093/mnras/sty3082>
- 3 Handley, W., & **Lemos, Pablo**. (2019a). Quantifying dimensionality: Bayesian cosmological model complexities. *Phys. Rev. D*, 100(2), arXiv 1903.06682, 023512.
🔗 <https://doi.org/10.1103/PhysRevD.100.023512>
- 4 Handley, W., & **Lemos, Pablo**. (2019b). Quantifying tensions in cosmological parameters: Interpreting the DES evidence ratio. *Phys. Rev. D*, 100(4), arXiv 1902.04029, 043504.
🔗 <https://doi.org/10.1103/PhysRevD.100.043504>
- 5 **Lemos, Pablo**, Challinor, A., & Efstathiou, G. (2017). The effect of Limber and flat-sky approximations on galaxy weak lensing. *JCAP*, 05arXiv 1704.01054, 014.
🔗 <https://doi.org/10.1088/1475-7516/2017/05/014>







Skills

- Languages 📌 Strong reading, writing and speaking competencies for English, Spanish and Galician.
- Coding 📌 Python, Fortran 90, TensorFlow, Keras, MPI, OpenMP, \LaTeX , ...
- Misc. 📌 Academic research, teaching, training, \LaTeX typesetting and publishing, leadership, collaboration work, seminar and conference organization.






Awards and Achievements

- 2016 📌 Winner of **Winner of Three Minute Thesis Competition**, Selwyn College Cambridge.
- 2015 📌 **Isaac Newton Studentship**, Institute of Astronomy, Cambridge.






Teaching

- 2019  PHAS0007 *Python Computing Demonstrating* – University College London.
-  PHAS0011 *Modern Physics Exam Marking* (1st year students) – University College London
- 2018  PHAS0004 *Atoms, Stars and the Universe Tutor* (1st year students) – University College London
- 2017  Part II *Cosmology* Supervision (3rd year students) – University of Cambridge
- 2016  Part II *Cosmology* Supervision (3rd year students) – University of Cambridge
- 2015  Part II *General Relativity* Supervision (3rd year students) – University of Cambridge

Student Supervision

- 2020  UCL: MSci student Paul Shah. Ongoing research on possible systematics explaining the Hubble tension.
-  UCL: MSci student Azib Norazman. Ongoing research on peculiar velocities with *Gaia*.
- 2019  UCL: CDT DIS Group Project Supervisor: *The Economist* – Article Impact; Flavien Hardy, Aidan Kelly, Sunil Mucesh.
-  UCL: MSci student Constantina Nicolaou. Research resulted in Nicolaou et al. (2020)
- 2018  University of Cambridge: Undergraduate student Elizabeth Lee. Research resulted in Lemos, Lee et al. (2019)

Academic Talks & Responsibilities Held

- 2019 – . . .  Co-coordinator of DES Y3 ‘Likelihood-Free Inference’ Working Group.
- 2018 – . . .  Coordinator of DES Y3 ‘Tensions’ and ‘Samplers’ Working Groups
- 2016 – . . .  12 presentations at different conference and seminars, including Oxford, Cambridge, UCL and Madrid; and talks at the 231st AAS meeting.
- 2018 – 2020  Co-organiser of Cosmology and Extragalactic Astrophysics Seminar series at UCL, having hosted over 40 speakers.
- 2016 – 2018  President of the IoA-Kavli Cosmology Journal Club

References

Available on Request