Pablo Lemos, Ph.D.

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🌐 https://pablo-lemos.github.io
in http://www.linkedin.com/in/plemosp/

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, 05*arXiv 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

Teaching

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 & Responsibilies 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