José Luis Bernal

Max Planck Institute for Astrophysics Karl-Schwarzschild-Str. 1 85748 Garching, Germany		jlbernal@MPA-Garching.MPG.DE https://jl-bernal.github.io https://github.com/jl-bernal	
RESEARCH INTERESTS	Cosmology: large-scale structure, line-intensity mapping, dark matter, Hubble constant tension, agnostic modeling and data analysis, neutrino cosmology, primordial non-Gaussianity, blinding methods in cosmology.		
Professional Career	Max Planck Institute for Astrophysics, Postdoctoral resea	arch fellow Oct 2022 – present	
	Johns Hopkins University, Davis Postdoctoral Fellowship Department of Physics and Astronomy	Oct 2019 – Sept 2022	
	University of Barcelona, FPI fellow PhD Candidate Quantum Physics and Astrophysics Department, Institute	Sept 2015 – Sept 2019 e of Cosmos Sciences	
EDUCATION	Ph.D. in Physics, University of Barcelona Sept 2019 PhD Thesis: Cosmology on the edge of Λ CDM, (excellent Summa Cum Laude) Advisor: Licia Verde		
	M.Sc. in Theoretical Physics, Universidad Autónoma de Madrid Jun 2015 Master Thesis: A consistency test of General Relativity using Expansion History and Growth of Structures Advisors: Licia Verde, Antonio J. Cuesta, Alexander Knebe		
	Bachelor Degree in Physics with honors, Universidad Aut	ónoma de Madrid — June 2014	
Honors &	Second Prize of the XXV Prize 'Claustre de Doctors' of the University of Barcelona 2021		
Awards	Doctoral Extraordinary Prize at the University of Barcelona, class 2018-2019 2021		
	Spanish Astronomy Society Thesis Prize to the best Doctoral Thesis in A&A 2020		
	Allan C. and Dorothy H. Davis Postdoctoral Fellowship, JHU 2019		
	FPI Fellowship for the formation of doctors, Spanish MIN	NECO 2015	
	Postgraduate Fellowship to study the Master in Theoretical Physics, UAM+CSIC 2014		
	Extraordinary Prize for the Best Academic Record of Physics 2014 Class, UAM 2014		
	Excellent Fellowship, Madrid regional Government	2013,2012,2011,2010	
TEACHING	Teaching Assistant at the University of Barcelona		
	Astronomy Ordinary Differential Equations and Vector Calculus	Spring 2017 Spring 2017, Spring 2018	
Peer Review	Astrophysics and cosmology journals, including: ApJ, JCAP, A&A, PDU, EPJC, Universe, IJMPD		
	External reviewer: Universidad Computense de Madrid's program 'Ayud I+D para jóvenes doctores'	das para la realización de proyectos 2022	

Mentoring	Graduate students: Gabriela Sato-Polito (3 publications), Hector A. Cruz; current graduate students at J Katie Short (2 publication); current graduate student at ICC-UB		
Publication	31 refereed journal publications (14 first-authored), 1700+ citations, h -index=18		
METRICS	1 additional first-author article accepted at PRL, 1 article accepted at PRD and other 4 submitted (2 to PRL, 1 to PRD, and 1 to JCAP).		
OUTREACH	Round table about dark matter for the "Dark Matter Day"	2018	
	At what speed does the Universe expands? - Invited talk, Sabadell Astronomy Group 2018		
	Unravelling the dark Universe - Exhibition about cosmology, gravity and black holes 2017		
	Physics Experiments - UB (demonstrations for High school students) 2016, 2017, 201		
	Walk on the Dark Side - Invited talk for Physics bachelor students	2016	
	Physis - UB (demonstrations for High school students)	2016	
Professional Activities	Member of the HETDEX collaboration	2022 - present	
	Member of the SKA Cosmology group and Graviational Waves group 2018 - presen		
	Member of the Australian SKA Pathfinder (ASKAP) Cosmology group 2018 - preser		
	Postdoc representative in the "Joint JHU/STScI Colloquium Committee" 2021 - 2022		
	Founder and coordinator of "Physics and Astronomy Postdocs and Research Scientists" association at JHU 2020 - 2022		
	Organizer of the "Particle theory seminars" at JHU Founder and organizer of the "PhD & Science" meetings at the ICCUB		
	LOC member in "Venice Cosmology Workshop 2018: The Island"	2018	
VISITING RESEARCH	Department of Physics and Astronomy, JHU (funded by María de Maeztu)	April 2018	
	Institute for Astronomy, University of Edinburgh (funded by ICCUB)	October 2017	
	Radcliffe Institute of Advanced Study, Harvard (funded by FPI fellowship) April - June 2016		
REFERENCES	Marc KamionkowskiLicia VerdeJohns Hopkins UniversityInstitute of Cosmos Science(+1) 410-516-0373(+34) 934031328kamion@jhu.eduliciaverde@icc.ub.edu	s (ICC-UB)	

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