José Luis Bernal

Department of Physics and Astronomy Johns Hopkins University 3400 N. Charles Street. Baltimore, MD 21218, USA		jbernal2@jhu.edu 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	Johns Hopkins University, Davis Postdoctoral Fellowship Department of Physics and Astronomy	Pellowship Oct 2019 – present	
	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 PhD Thesis: Cosmology on the edge of Λ CDM, (excellent Summa Cum Laude) Advisor: Licia Verde		Sept 2019 Summa Cum Laude)	
	M.Sc. in Theoretical Physics, Universidad Autónoma de Master Thesis: A consistency test of General Relativity us of Structures Advisors: Licia Verde, Antonio J. Cuesta, Alexander Kne	sing Expansion History and Growth	
	Bachelor Degree in Physics with honors, Universidad Aut	zónoma de Madrid Unne 2014	
HONORS & Second Prize of the XXV Prize 'Claustre de Doctors' of the University of Barcelon AWARDS Doctoral Extraordinary Prize at the University of Barcelona, class 2018-2019 Spanish Astronomy Society Thesis Prize to the best Doctoral Thesis in A&A		he University of Barcelona 2021	
		ona, class 2018-2019 2021	
		toral Thesis in A&A 2020	
	Allan C. and Dorothy H. Davis Postdoctoral Fellowship, JHU		
FPI Fellowship for the formation of doctors, Spanish MINECO		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' External reviewer for NASA's FINESST program	das para la realización de proyectos 2022 2020, 2021, 2022	

MENTORING	Graduate students: Gabriela Sato-Polito (3 publications), Hector A. Cruz; current graduate students at JHU Katie Short (2 publication); current graduate student at ICC-UB			
PUBLICATION	30 refereed journal publications (13 first-authored), 1500+ citations, h-index=18			
METRICS	1 article accepted at TAAR and 5 additional articles submitted (3 to PRL, 1 to PRD, and 1 to JCAP).			
OUTREACH	EACH 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, 2018			
	Walk on the Dark Side - Invited talk for Physics bachelor students 2016		2016	
	Physis - UB (demonstrations for High school students)		2016	
Professional Activities	Member of the SKA Cosmology group and Graviational Waves group 2018 - present			
	Member of the Australian SKA Pathfinder (ASKAP) Cosmology group 2018 - present			
	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		2020 - 2022	
	Founder and organizer of the "PhD & Science" meetings at the ICCUB		2018 - 2019	
	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 Sciences(+1) 410-516-0373(+34) 934031328kamion@jhu.eduliciaverde@icc.ub.edu		s (ICC-UB)	
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