José Luis Bernal

Department of Physics and Astronomy Johns Hopkins University 3400 N. Charles Street. Baltimore, MD 21218, USA		jbernal2@jhu.edu https://joseluisbernal.wixsite.com/home 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 Fellov Department of Physics and Astronomy	nent of Physics and Astronomy	
	University of Barcelona, FPI fellow PhD Candidate Quantum Physics and Astrophysics Department, In		
EDUCATION	Ph.D. in Physics, University of Barcelona PhD Thesis: Cosmology on the edge of Λ CDM, (excellent Summa Cum Laude) Advisor: Licia Verde		
	M.Sc. in Theoretical Physics, Universidad Autónom Master Thesis: A consistency test of General Relation of Structures Advisors: Licia Verde, Antonio J. Cuesta, Alexande	vity using Expansion History and Growth	
Bachelor Degree in Physics with honors, Universidad Autón		d Autónoma de Madrid June 2014	
Honors & Second Prize of the XXV Prize 'Claustre de Doctors' of the University of Barcelona			
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 Allan C. and Dorothy H. Davis Postdoctoral Fellowship, JHU 2		
FPI Fellowship for the formation of doctors, Spanish MINECO Postgraduate Fellowship to study the Master in Theoretical Physics, UAM+CSIC Extraordinary Prize for the Best Academic Record of Physics 2014 Class, UAM		h MINECO 2015	
		eoretical Physics, UAM+CSIC 2014	
		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 Ca	Spring 2017 lculus Spring 2017, Spring 2018	
Peer Review	Astrophysics and cosmology journals, including: ApJ, JCAP, A&A, PDU, EPJC, Universe, IJM	PD	
	External reviewer: Universidad Computense de Madrid's program I+D para jóvenes doctores' External reviewer for NASA's FINESST progra	2022	

MENTORING	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 4 additional articles 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, 2018	
	Walk on the Dark Side - Invited talk for Physics bachelor students		2016	
	Physis - UB (demonstrations for High scho	ol 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 - prese		2021 - present	
	Founder and coordinator of "Physics and Astronomy Postdocs and Research Scientists" association at JHU 2020 - present			
	Organizer of the "Particle theory seminars" at JHU		2020 - present	
	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	FERENCES $ \begin{array}{ccccccccccccccccccccccccccccccccccc$		s (ICC-UB)	
	Ely D. Kovetz Ben-Gurion University	Alvise Raccanelli University of Padova		

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Mentoring

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